3 0 0 LINE

1

PERFORMANCE CYLINDERS







THE GARDOO CYLINDER.

PERFORMANCE. PURE AND SIMPLE.



This is the Gardco cylinder. In almost every aspect of lighting performance, construction and versatility, it promises to change where and how you apply this classic architectural form. These are luminaires that are at home indoors and out. Conventional symmetric optics offer high performance illumination for up and downlight applications. And now, a revolutionary new forward throw optical system offers a uniform distribution for illumination out and away from the luminaire — ideal for entry and building-mounted luminaires.

The 302 provides designers with a tall and slender architectural form — a look suitable for larger entries and where a larger scale luminaire is appropriate.

The 301, pictured on page 6, provides up/down lighting from a sleek yet exceptional compact housing style.

A wide choice of optics and trims make the entire series uncommonly flexible.



302 Series Up/Down Wall Cylinders

Traditional up/down wall cylinders have required two lamps and ballasts. This has necessitated oversized luminaires often out of scale for many mounting heights. The 301 utilizes a single lamp and ballast to achieve downlighting and uplighting. The resulting form is a remarkably compact cylinder featuring



TRIMS

Practical and durable options for the most demanding commercial applications.



The sealed lens option is suitable for wet locations in either downlight or uplight mounting orientations.



Enclosed downlight luminaire with flat clear glass for forward throw optics.



Enclosed downlight luminaire with regressed trim and flat Solite® glass.



Enclosed downlight with eggcrate louver and Solite® lens.



The unique "Spike" (301 only) downlight and/or uplight distribution provides a narrow stripe of illumination on the wall or column. Specifying blue or green colored lamps (see accessories in ordering information) can further enhance the dramatic effect.



Open downlight may be specified with polished reflectors or black baffle.

OPTICS



Exceptionally low brightness open downlight with architectural black baffle for PAR38 or R40 lamps.



Open baffled E-17 downlight with faceted high performance reflector.



Open downlight with twin highly specular reflectors for fluorescent lamps.



Open downlight with faceted high performance reflector for E-17 HID lamps. Sharp cut-off of the lamp arc tube and arc tube images.



Enclosed up or downlight with high performance forward throw optics — a unique asymmetric distribution available in a cylinder.
Supplied with T70MH lamp.

MOUNTINGS

Carefully detailed hardware complements each of the six luminaire forms. Luminaire style and mounting options.



One of three wall mounting options; this for either up or downlighting only. (300)



Universal knuckle for wall, ground or ceiling mount. Permits 358° rotation and 90° tilt. A cast junction box is available for pre-shipment and can be used in poured concrete or for surface mounting.



Standard 300 Series pendant length is a net 18" from the ceiling. Internal swivel accommodates up to 35° slope.



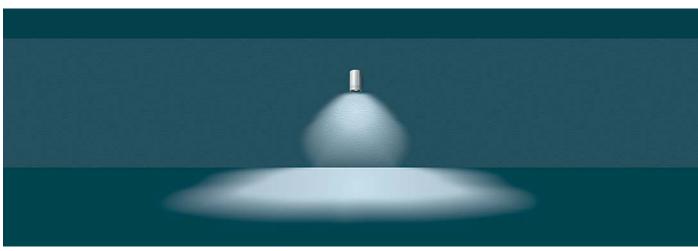
302 wall bracket for simultaneous bi-directional up/downlighting.



Ceiling mount with offset, low profile canopy.

301 Series

Up/Down Wall Cylinders

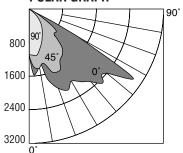


The 300 Line features a unique forward throw optical system, the first of its kind, designed to provide unprecedented forward projection from a cylinder.

CANDELA TABULATION

	0	45	90
0.0	1050	1050	1050
5.0	1461	1384	1114
10.0 15.0	1280 1740	1440 1336	1148 981
20.0	2060	1608	877
25.0	2171	1670	773
30.0	2032	1496	682
35.0	2171	1392	591
40.0	2296	1246	494
42.5	2407	1037	438
45.0	2519	877	306
47.5 50.0	2394	849 856	153 63
52.5	2422 2755	773	49
55.0	3132	529	35
57.5	2463	327	28
60.0	1475	181	21
62.5	738	112	14
65.0	320	69	14
67.5	139	49	14
70.0	84	28	14
72.5 75.0	42 28	14 14	14 14
77.5	20 14	7	7
80.0	14	7	7
82.5	0	0	0
85.0	0	0	0
87.5	0	0	0
90.0	0	0	0

POLAR GRAPH

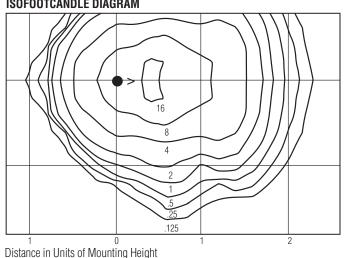


DESCRIPTION

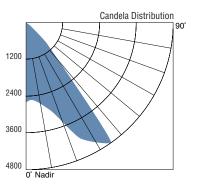
70W T6 G12 Metal Halide 6200 LUMENS Flat Lens Trim Cat. No. 300-D-X-FT/D-T70MH [Test No. 3LF70MT (6362)]

Total Luminaire Efficiency Spacing Criterion (90Þ-270Þ Lateral) 1.0

ISOFOOTCANDLE DIAGRAM



REFLECTOR TRIM **CLEAR LAMPS**



Spacing Criterion Total Luminaire Efficiency 79.7%

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD Effective Floor Cavity Reflectance 20%

	RC		80)%			50%			30%		0%	l
	RW	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%	l
	0	.95	.95	.95	.95	.89	.89	.89	.85	.85	.85	.80	l
	1	.90	.87	.85	.83	.82	.80	.79	.79	.78	.77	.73	l
	2	.84	.80	.76	.73	.76	.73	.70	.73	.71	.69	.66	l
	3	.79	.73	.68	.64	.70	.66	.63	.68	.64	.62	.59	l
	4	.74	.67	.61	.57	.64	.60	.56	.62	.59	.56	.54	l
המעוניו המועה	5	.69	.61	.56	.51	.59	.54	.51	.57	.53	.50	.48	l
Ξ	6	.64	.56	.50	.46	.54	.49	.46	.53	.49	.45	.44	l
Ĭ	7	.60	.51	.46	.42	.50	.45	.41	.49	.44	.41	.40	l
	8	.56	.47	.42	.38	.46	.41	.38	.45	.41	.37	.36	l
≣	9	.53	.44	.38	.34	.43	.38	.34	.42	.37	.34	.33	l

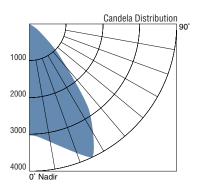
RC-Effective Ceiling Cavity Reflectance RC-Effective Wall Reflectance

DESCRIPTION

100W E-17 CLEAR METAL HALIDE – 8500 LUMENS REFLECTOR TRIM CAT. NO. 300-0-X-R-100MH

TEST NO. 3R1M (6413)

REFLECTOR TRIM COATED LAMPS



Spacing Criterion Total Luminaire Efficiency 76.9%

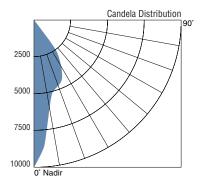
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

	_11001	10011	001	Javity	1101	loctai	100 2	0 /0				
	RC		80)%			50%			30%		0%
	RW	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
	0	.92	.92	.92	.92	.85	.85	.85	.82	.82	.82	.7
	1	.86	.84	.82	.80	.79	.78	.76	.76	.75	.74	.7
	1 2 3	.81	.77	.73	.70	.73	.70	.68	.70	.68	.66	.6
	3	.76	.70	.66	.62	.67	.63	.60	.65	.62	.59	.5
_	4	.71	.64	.59	.55	.61	.57	.54	.60	.56	.53	.5
≣	5	.66	.59	.53	.50	.57	.52	.49	.55	.51	.48	.4
Ĕ	6	.62	.54	.49	.45	.52	.48	.44	.51	.47	.44	.4
E	7	.58	.50	.44	.41	.48	.44	.40	.47	.43	.40	.3
25	8	.55	.46	.41	.37	.45	.40	.37	.44	.40	.37	.3
Ē	9	.52	.43	.37	.34	.42	.37	.34	.41	.37	.34	.3
Room Cavity Ratio	10	.49	.40	.35	.31	.39	.34	.31	.38	.34	.31	.3
	RC-F1	ffective	Ceilin	n Cavi	tv Refl	ectano	е	RC-	Effectiv	e Wall	Refler	tan

DESCRIPTION

100W E-17 COATED METAL HALIDE – 7900 LUMENS REFLECTOR TRIM CAT. NO. 300-0-X-R-100MH/C TEST NO. 3R1X (6414)

BAFFLE TRIM **CLEAR LAMPS**



Spacing Criterion Total Luminaire Efficiency 75.6%

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

- 1			00.	, a •		ootai	.00 -	0 ,0				
	RC		80)%			50%			30%		0%
	RW	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
	0	.90	.90	.90	.90	.84	.84	.84	.80	.80	.80	.76
	1	.86	.84	.82	.80	.79	.78	.76	.76	.75	.74	.71
	2	.81	.78	.75	.72	.74	.72	.70	.72	.70	.68	.66
	3	.77	.72	.69	.66	.69	.66	.64	.67	.65	.63	.61
	4	.73	.67	.63	.60	.65	.62	.59	.63	.61	.58	.56
薑	5	.69	.63	.59	.55	.61	.57	.55	.60	.57	.54	.52
Ψ.	6	.66	.59	.55	.51	.57	.53	.51	.56	.53	.50	.49
₹	7	.63	.55	.51	.48	.54	.50	.47	.53	.50	.47	.46
బ	8	.59	.52	.48	.44	.51	.47	.44	.50	.47	.44	.43
E	9	.57	.49	.45	.42	.48	.44	.41	.47	.44	.41	.40
Room Cavity Ratio	10	.54	.46	.42	.39	.45	.42	.39	.45	.41	.39	.38

RC-Effective Ceiling Cavity Reflectance RC-Effective Wall Reflectance

DESCRIPTION

BAFFLE TRIM

100W E-17 CLEAR METAL HALIDE – 8500 LUMENS REFLECTOR W/BLACK BAFFLE TRIM CAT. NO. 300-0-X-R/B-100MH TEST NO. 3RB1M (6409)

LUMEN FACTOR CHART – CLEAR LAMPS

For approximate candela values, the following multipliers may be used for clear lamps:

50MH - .41 50HPS - .47 70MH - .61 70HPS - .74 100MH - 1.00 100HPS - 1.12

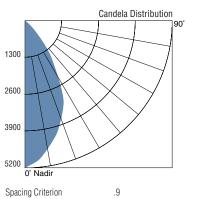
For more precise high pressure sodium values, contact your Gardco Lighting Representative and request the actual HPS tests.

COATED LAMPS **LUMEN FACTOR CHART – COATED LAMPS**

For approximate candela values, the following multipliers may be used for clear lamps:

50HPS - .47 70HPS - .73 50MH - 38 70MH - .60 100MH - 1.00 100HPS - 1.11

For more precise high pressure sodium values, contact your Gardco Lighting Representative and request the actual HPS tests.



Total Luminaire Efficiency 61.4% COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 20%

	RC		80)%			50%			30%		0%
ĺ	RW	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
	0	.73	.73	.73	.73	.68	.68	.68	.65	.65	.65	.61
	1	.70	.68	.66	.65	.64	.63	.62	.62	.61	.60	.57
	2	.66	.63	.60	.58	.60	.58	.56	.58	.56	.55	.53
	3	.62	.58	.55	.52	.56	.53	.51	.54	.52	.50	.48
	4	.59	.54	.50	.47	.52	.49	.47	.51	.48	.46	.45
픙	5	.56	.50	.46	.43	.48	.45	.43	.47	.45	.42	.41
~	6	.53	.47	.43	.40	.45	.42	.40	.44	.41	.39	.38
ا≢	7	.50	.44	.40	.37	.42	.39	.37	.42	.39	.36	.35
ප	8	.47	.41	.37	.34	.40	.37	.34	.39	.36	.34	.33
팀	9	.45	.38	.35	.32	.38	.34	.32	.37	.34	.32	.31
Room Cavity Ratio	10	.43	.36	.32	.30	.35	.32	.30	.35	.32	.30	.29

RC-Effective Ceiling Cavity Reflectance RC-Effective Wall Reflectance

DESCRIPTION

100W E-17 COATED METAL HALIDE – 7900 LUMENS REFLECTOR W/BLACK BAFFLE TRIM

CAT. NO. 300-0-X-R/B-100MH/C TEST NO. 3RB1X (6410)

BAFFLE TRIM FLOOD DISTRIBUTION LAMPS Candela Distribution 1100 2200 3300 4400

Spacing Criterion Total Luminaire Efficiency

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD Effective Floor Cavity Reflectance 20%

75.7%

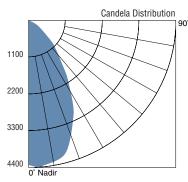
	RC		80)%			50%			30%		0%		
	RW	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%		
	0	.90	.90	.90	.90	.84	.84	.84	.81	.81	.81	.76		
	1	.86	.84	.82	.80	.79	.78	.77	.76	.75	.74	.71		
	2	.82	.78	.75	.72	.74	.72	.70	.72	.70	.68	.66		
	3	.77	.73	.69	.66	.70	.67	.64	.68	.65	.63	.61		
	4	.73	.68	.63	.60	.65	.62	.59	.64	.61	.58	.57		
í	5	.70	.63	.59	.55	.61	.58	.55	.60	.57	.54	.53		
1	6	.66	.59	.55	.51	.57	.54	.51	.56	.53	.50	.49		
3	7	.63	.56	.51	.48	.54	.50	.47	.53	.50	.47	.46		
noom oavny mans	8	.60	.52	.48	.44	.51	.47	.44	.50	.47	.44	.43		
	9	.57	.49	.45	.42	.48	.44	.41	.47	.44	.41	.40		
3	10	.54	.46	.42	.39	.45	.42	.39	.45	.41	.39	.38		

RC-Effective Ceiling Cavity Reflectance RC-Effective Wall Reflectance

DESCRIPTION

100W PAR-38 FLOOD METAL HALIDE – 5600 LUMENS BLACK BAFFLE TRIM CAT. NO. 300-0-X-B-100MH/PAR38/WFL TEST NO. 3B1MP3F (6407)

REFLECTOR TRIM FLOOD DISTRIBUTION LAMPS



COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 20%

90.3%

	RC		80)%			50%			30%		0%
	RW	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
	0	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.96	.96	.96	.90
	1	1.00	.99	.97	.95	.94	.92	.90	.90	.89	.88	.83
	2	.96	.91	.87	.84	.87	.84	.81	.84	.82	.79	.76
	3	.91	.84	.79	.75	.80	.77	.73	.78	.75	.72	.70
0	4	.85	.78	.72	.68	.75	.70	.67	.73	.69	.66	.64
뜵	5	.80	.72	.66	.62	.69	.65	.61	.68	.64	.60	.58
Α.	6	.76	.67	.61	.56	.65	.60	.56	.63	.59	.55	.54
₹	7	.71	.62	.56	.52	.60	.55	.51	.59	.54	.51	.49
డ్	8	.67	.58	.52	.48	.56	.51	.47	.55	.51	.47	.46
Room Cavity Ratio	9	.64	.54	.48	.44	.53	.48	.44	.52	.47	.44	.42
	10	.60	.51	.45	.41	.50	.45	.41	.49	.44	.41	.39

RC-Effective Ceiling Cavity Reflectance RC-Effective Wall Reflectance

DESCRIPTION

Spacing Criterion

Total Luminaire Efficiency

100W PAR-38 FLOOD METAL HALIDE - 5600 LUMENS REFLECTOR TRIM CAT. NO. 300-0-X-R-100MH/PAR38/WFL

TEST NO. 3R1MP3F (6465)

BAFFLE TRIM **SPOT DISTRIBUTION LAMPS** Candela Distribution 15400 30800

Spacing Criterion Total Luminaire Efficiency 87.8%

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD Effective Floor Cavity Reflectance 20%

	RC		80)%			50%			30%		0%	
	RW	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%	
	0	1.00	1.00	1.00	1.00	.98	.98	.98	.93	.93	.93	.88	
	1	1.00	.99	.98	.96	.94	.93	.92	.91	.90	.89	.85	
	2	.98	.95	.93	.91	.91	.89	.88	.89	.87	.86	.83	
	3	.95	.91	.88	.86	.88	.86	.84	.86	.84	.83	.81	
	4	.93	.88	.85	.82	.86	.83	.81	.84	.82	.80	.78	
Ħ	5	.90	.85	.82	.79	.83	.81	.78	.82	.80	.78	.76	
Z.	6	.88	.83	.79	.77	.81	.78	.76	.80	.78	.76	.74	
Cavity Ratio	7	.86	.80	.77	.75	.79	.76	.74	.78	.76	.74	.73	
డ్	8	.84	.78	.75	.73	.77	.74	.72	.76	.74	.72	.71	
Room	9	.82	.76	.73	.71	.75	.72	.71	.75	.72	.70	.69	
&	10	.80	.75	.71	.69	.74	.71	.69	.73	.71	.69	.68	

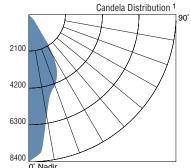
RC-Effective Ceiling Cavity Reflectance RC-Effective Wall Reflectance

DESCRIPTION

TEST NO. 3B1MP3S (6408)

100W PAR-38 SPOT METAL HALIDE - 5200 LUMENS BLACK BAFFLE TRIM CAT. NO. 300-0-X-B-100MH/PAR38/SP

FLAT LENS **CLEAR LAMPS**



Spacing Criterion 68.3% Total Luminaire Efficiency

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD Effective Floor Cavity Reflectance 20%

	RC		80)%			50%			30%		0%
	RW	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
	0	.81	.81	.81	.81	.76	.76	.76	.73	.73	.73	.68
	1	.77	.76	.74	.72	.71	.70	.69	.69	.68	.67	.64
	2	.74	.70	.67	.65	.67	.65	.63	.65	.63	.62	.59
		.70	.65	.62	.59	.63	.60	.58	.61	.59	.57	.55
_	4	.66	.61	.57	.54	.59	.56	.53	.57	.55	.53	.51
Room Cavity Ratio	5	.63	.57	.53	.50	.55	.52	.49	.54	.51	.49	.47
Ξ	6	.59	.53	.49	.46	.52	.48	.46	.51	.48	.45	.44
₹.	7	.56	.50	.46	.43	.49	.45	.43	.48	.45	.42	.41
ఔ	8	.54	.47	.43	.40	.46	.42	.40	.45	.42	.40	.39
트	9	.51	.44	.40	.38	.43	.40	.37	.43	.40	.37	.36
ĕ	10	.49	.42	.38	.35	.41	.38	.35	.41	.37	.35	.34
	RC-E	fective	Ceilin	g Cavi	е	RC-	Effectiv	e Wall	Refle	ctance		

DESCRIPTION

100W E-17 CLEAR METAL HALIDE - 8500 LUMENS FLAT LENS TRIM CAT. NO. 300-D-X-L-100MH TEST NO. 3L1M (6439)

LENS WITH LOUVERS CLEAR LAMPS Candela Distribution 1 2100 4200 6300

Spacing Criterion 0.5 43.8% Total Luminaire Efficiency

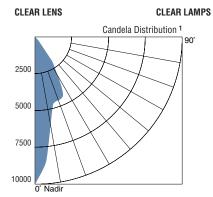
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 20%

					-							
	RC		80)%			50%			30%		0%
	RW	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
	0	.52	.52	.52	.52	.49	.49	.49	.47	.47	.47	.44
	1	.50	.49	.48	.47	.46	.45	.45	.44	.44	.43	.41
	2	.48	.46	.44	.42	.43	.42	.41	.42	.41	.40	.39
	3	.45	.43	.41	.39	.41	.39	.38	.40	.39	.37	.36
_	4	.43	.40	.38	.36	.39	.37	.35	.38	.36	.35	.34
ij	5	.41	.38	.35	.34	.37	.35	.33	.36	.34	.33	.32
- E	6	.39	.36	.33	.31	.35	.33	.31	.34	.32	.31	.30
Cavity Ratio	7	.38	.34	.31	.29	.33	.31	.29	.32	.30	.29	.28
ca	8	.36	.32	.29	.28	.31	.29	.28	.31	.29	.28	.27
듵	9	.34	.30	.28	.26	.30	.28	.26	.29	.27	.26	.25
Room	10	.33	.29	.27	.25	.28	.26	.25	.28	.26	.25	.24

RC-Effective Ceiling Cavity Reflectance RC-Effective Wall Reflectance DESCRIPTION

100W E-17 CLEAR METAL HALIDE - 8500 LUMENS LOUVERED LENS TRIM CAT. NO. 300-D-X-LL-100MH TEST NO. 3LV1M (6436)



0.5 Spacing Criterion 67.7% Total Luminaire Efficiency

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD Effective Floor Cavity Reflectance 20%

	RC		80)%			50%			30%		0%
	RW	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
	0	.81	.81	.81	.81	.75	.75	.75	.72	.72	.72	.68
	1	.77	.75	.73	.72	.71	.70	.69	.68	.67	.67	.63
	2	.73	.70	.67	.65	.67	.65	.63	.65	.63	.61	.59
	3	.69	.65	.62	.59	.62	.60	.58	.61	.59	.57	.55
	4	.66	.61	.57	.54	.59	.56	.53	.57	.55	.53	.51
æ	5	.63	.57	.53	.50	.55	.52	.50	.54	.51	.49	.48
-	6	.60	.54	.50	.47	.52	.49	.46	.51	.48	.46	.45
€.	7	.57	.50	.46	.44	.49	.46	.43	.48	.45	.43	.42
Cavity Ratio	8	.54	.48	.44	.41	.46	.43	.41	.46	.43	.40	.39
Room	9	.51	.45	.41	.38	.44	.41	.38	.43	.40	.38	.37
ē	10	.49	.43	.39	.36	.42	.38	.36	.41	.38	.36	.35

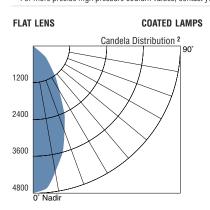
RC-Effective Ceiling Cavity Reflectance RC-Effective Wall Reflectance

DESCRIPTION

100W E-17 CLEAR METAL HALIDE – 8500 LUMENS CLEAR LENS TRIM

CAT. NO. 300-D/U/E-X-C-100MH TEST NO. 3CL1M (6445)

¹ For approximate candela values, the following multipliers may be used: 50MH - .41, 70MH - .61, 100MH - 1.00, 50HPS - .47, 70HPS - .74, 100HPS - 1.12. For more precise high pressure sodium values, contact your Gardco Representative and request the actual HPS tests.



Spacing Criterion Total Luminaire Efficiency

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD Effective Floor Cavity Reflectance 20%

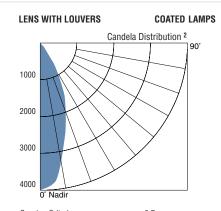
52.2%

	RC		80)%			50%			30%		0%
	RW	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
	0	.62	.62	.62	.62	.58	.58	.58	.56	.56	.56	.52
	1	.59	.58	.56	.55	.54	.53	.52	.52	.52	.51	.48
	2	.56	.53	.51	.49	.51	.49	.47	.49	.48	.46	.44
	3	.53	.49	.46	.44	.47	.45	.43	.46	.44	.42	.41
0	4	.50	.46	.43	.40	.44	.41	.39	.43	.41	.39	.38
ᄪ	5	.47	.42	.39	.37	.41	.38	.36	.40	.38	.36	.35
Ĭ,	6	.45	.40	.36	.34	.38	.36	.34	.38	.35	.33	.32
⋚	7	.42	.37	.34	.31	.36	.33	.31	.35	.33	.31	.30
3	8	.40	.35	.32	.29	.34	.31	.29	.33	.31	.29	.28
коот Саупу Капо	9	.38	.33	.30	.27	.32	.29	.27	.32	.29	.27	.26
훈	10	.36	.31	.28	.26	.30	.27	.26	.30	.27	.25	.25

RC-Effective Ceiling Cavity Reflectance RC-Effective Wall Reflectance

DESCRIPTION

100W E-17 COATED METAL HALIDE - 7900 LUMENS FLAT LENS TRIM CAT. NO. 300-D-X-L-100MH/C TEST NO. 3L1X (6440)



Spacing Criterion 32.7% Total Luminaire Efficiency

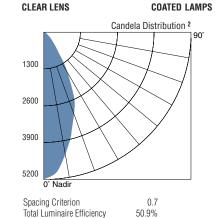
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD Effective Floor Cavity Reflectance 20%

	RC RW	70%	80 50%)% 30%	10%	50%	50% 30%	10%	50%	30% 30%	10%	0% 0%
Room Cavity Ratio	0 1 2 3 4 5 6 7 8	.39 .37 .35 .34 .32 .30 .29 .28	.39 .36 .34 .32 .30 .28 .26 .25	.39 .35 .33 .30 .28 .26 .24 .23	.39 .35 .31 .29 .26 .25 .23	.36 .34 .32 .30 .29 .27 .25 .24	.36 .34 .31 .29 .27 .25 .24 .22	.36 .33 .30 .28 .26 .24 .23 .21	.35 .33 .31 .30 .28 .26 .25 .24	.35 .33 .30 .28 .27 .25 .24 .22	.35 .32 .30 .28 .26 .24 .23 .21	.33 .31 .29 .27 .25 .23 .22 .21
Room	9	.25 .24	.22 .21	.20 .19	.19 .18	.22 .21	.20 .19	.19 .18	.21 .20	.20 .19	.19 .18	.18 .17

RC-Effective Ceiling Cavity Reflectance RC-Effective Wall Reflectance

DESCRIPTION

100W E-17 COATED METAL HALIDE - 7900 LUMENS LOUVERED LENS TRIM CAT. NO. 300-D-X-LL-100MH/C TEST NO. 3LV1X (6443)



COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD Effective Floor Cavity Reflectance 20%

	RC		80)%			50%			30%		0%
	RW	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
	0	.61	.61	.61	.61	.57	.57	.57	.54	.54	.54	.51
	1	.58	.56	.55	.54	.53	.52	.51	.51	.51	.50	.48
	2	.55	.52	.50	.48	.50	.48	.47	.48	.47	.46	.44
	3	.52	.49	.46	.44	.47	.45	.43	.45	.44	.42	.41
_	4	.49	.45	.43	.40	.44	.41	.40	.43	.41	.39	.38
薨	5	.47	.42	.39	.37	.41	.39	.37	.40	.38	.36	.35
č	6	.44	.40	.37	.34	.39	.36	.34	.38	36	.34	.33
€	7	.42	.37	.34	.32	.36	.34	.32	.36	.33	.32	.31
g	8	.40	.35	.32	.30	.34	.32	.30	.34	.31	.30	.29
Ε	9	.38	.33	.30	.28	.32	.30	.28	.32	.30	.28	.27
Room Cavity Ratio	10	.36	.31	.28	.26	.31	.28	.26	.30	.28	.26	.25

RC-Effective Ceiling Cavity Reflectance RC-Effective Wall Reflectance

DESCRIPTION

100W E-17 COATED METAL HALIDE – 7900 LUMENS CLEAR LENS TRIM CAT. NO. 300-D/U/E-X-C-100MH/C TEST NO. 3CL1X (6444)

² For approximate candela values, the following multipliers may be used: 50MH - .38, 70MH - .60, 100MH - 1.00, 50HPS - .47, 70HPS - .73, 100HPS - 1.11. For more precise high pressure sodium values, contact your Gardco Lighting Representative and request the actual HPS tests.

FLAT LENS FLOOD DISTRIBUTION LAMPS Candela Distribution 1000 2000 3000

Spacing Criterion Total Luminaire Efficiency

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD Effective Floor Cavity Reflectance 20%

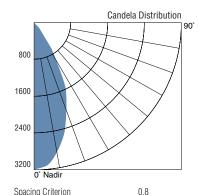
67.2%

					,							
	RC		80)%			50%				0%	
	RW	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
	0	.80	.80	.80	.80	.75	.75	.75	.71	.71	.71	.67
	1	.76	.74	.73	.71	.70	.69	.68	.68	.67	.66	.63
	2	.72	.69	.66	.64	.66	.63	.62	.63	.62	.60	.58
	3	.68	.64	.60	.58	.61	.59	.56	.60	.57	.55	.54
	4	.65	.60	.56	.53	.57	.54	.52	.56	.53	.51	.50
oavity matte	5	.61	.56	.51	.48	.54	.50	.48	.53	.50	.47	.46
É	6	.58	.52	.48	.45	.50	.47	.44	.49	.46	.44	.43
7	7	.55	.49	.44	.42	.47	.44	.41	.46	.43	.41	.40
5	8	.52	.46	.42	.39	.45	.41	.38	.44	.41	.38	.37
	9	.50	.43	.39	.36	.42	.38	.36	.41	.38	.36	.35
3	10	.47	.41	.37	.34	.40	.36	.34	.39	.36	.34	.33

RC-Effective Ceiling Cavity Reflectance RC-Effective Wall Reflectance

DESCRIPTION

100W PAR-38 FLOOD METAL HALIDE - 5600 LUMENS FLAT LENS TRIM CAT. NO. 300-D-X-L-100MH/PAR38/WFL TEST NO. 3L1MP3F (6427)



COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

43.1%

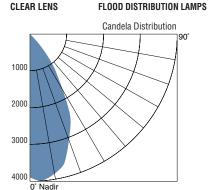
	Effective Floor Cavity Reflectance 20%													
	RC		80)%			50%			30%		0%		
	RW	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%		
	0	.51	.51	.51	.51	.48	.48	.48	.46	.46	.46	.43		
	1	.49	.48	.47	.46	.45	.44	.44	.44	.43	.42	.40		
	2	.47	.45	.43	.42	.42	.41	.40	.41	.40	.39	.38		
	3	.44	.42	.40	.38	.40	.38	.37	.39	.38	.36	.35		
_	4	.42	.39	.37	.35	.38	.36	.34	.37	.35	.34	.33		
慧	5	.40	.37	.34	.32	.36	.34	.32	.35	.33	.32	.31		
Æ	6	.38	.35	.32	.30	.34	.31	.30	.33	.31	.30	.29		
€	7	.36	.33	.30	.38	.32	.30	.28	.31	.29	.28	.27		
ဌာ	8	.35	.31	.28	.27	.30	.28	.26	.30	.28	.26	.26		
듵	9	.33	.29	.27	.25	.29	.26	.25	.28	.26	.25	.24		
Room Cavity Ratio	10	.32	.28	.25	.24	.27	.25	.23	.27	.25	.23	.23		
	RC_Effective Cailing Cavity Reflectance RC_Effective Wall Reflectance													

DESCRIPTION

Total Luminaire Efficiency

100W PAR-38 FLOOD METAL HALIDE – 5600 LUMENS LOUVERED LENS TRIM CAT. NO. 300-D-X-LL-100MH/PAR38/WFL TEST NO. 3LV1MP3F (6431)

LENS WITH LOUVERS FLOOD DISTRIBUTION LAMPS



Spacing Criterion Total Luminaire Efficiency

65.7%

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD Effective Floor Cavity Reflectance 20%

	RC		80)%			50%			30%		0%
	RW	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
	0	.78	.78	.78	.78	.73	.73	.73	.70	.70	.70	.66
	1	.75	.73	.71	.70	.69	.67	.66	.66	.65	.64	.61
	2	.71	.68	.65	.63	.64	.62	.61	.62	.61	.59	.57
	3	.67	.63	.60	.57	.60	.58	.56	.59	.57	.55	.53
	4	.64	.59	.55	.53	.57	.54	.52	.55	.53	.51	.49
ā	5	.61	.55	.51	.49	.53	.50	.48	.52	.50	.47	.46
Æ	6	.58	.52	.48	.45	.50	.47	.45	.49	.46	.44	.43
₹.	7	.55	.49	.45	.42	.47	.44	.42	.47	.44	.41	.40
ca	8	.52	.46	.42	.39	.45	.41	.39	.44	.41	.39	.38
트	9	.50	.43	.39	.37	.42	.39	.37	.42	.39	.36	.35
Room Cavity Ratio	10	.47	.41	.37	.35	.40	.37	.34	.40	.37	.34	.33

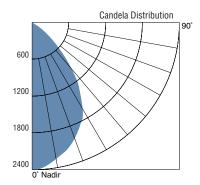
RC-Effective Ceiling Cavity Reflectance RC-Effective Wall Reflectance

DESCRIPTION

100W PAR-38 FLOOD METAL HALIDE - 5600 LUMENS CLEAR LENS TRIM

CAT. NO. 300-D/U/E-X-C-100MH/PAR38/WFL TEST NO. 3CL1MP3F (6429)

FLOOD DISTRIBUTION LAMPS



Spacing Criterion 51.9% Total Luminaire Efficiency

FLAT LENS

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD Effective Floor Cavity Reflectance 20%

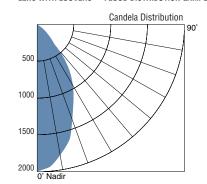
- 1				ourn	,	Toota		.0 ,0				
	RC		80)%			50%			30%		0%
	RW	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
	0	.62	.62	.62	.62	.58	.58	.58	.55	.55	.55	.52
	1	.58	.57	.55	.54	.53	.52	.51	.51	.51	.50	.47
	2	.55	.52	.49	.47	.49	.47	.45	.47	.46	.44	.43
		.51	.47	.44	.42	.45	.43	.41	.44	.42	.40	.38
,	4	.48	.43	.40	.37	.41	.39	.36	.40	.38	.36	.35
	5	.45	.40	.36	.33	.38	.35	.33	.37	.35	.33	.31
	6	.42	.37	.33	.30	.35	.32	.30	.35	.32	.30	.29
	7	.40	.34	.30	.28	.33	.30	.27	.32	.29	.27	.26
5	8	.37	.31	.28	.25	.30	.27	.25	.30	.27	.25	.24
5	9	.35	.29	.26	.23	.28	.25	.23	.28	.25	.23	.22
2	10	.33	.27	.24	.22	.27	.24	.21	.26	.23	.21	.20

RC-Effective Ceiling Cavity Reflectance RC-Effective Wall Reflectance

DESCRIPTION

100W R-40 FLOOD METAL HALIDE - 6700 LUMENS FLAT LENS TRIM CAT. NO. 300-D-L-100MH/R40/FL TEST NO. 3L1MR4F (6417)

LENS WITH LOUVERS FLOOD DISTRIBUTION LAMPS



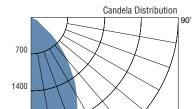
Spacing Criterion Total Luminaire Efficiency 29.7%

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

	LIIGOI	LIVUI	1001	Ouvit	yrtoi	Toolui	100 2	.0 /0				
	RC		80)%			50%			30%		0%
	RW	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
	0	.35	.35	.35	.35	.33	.33	.33	.32	.32	.32	.30
	1	.34	.33	.32	.31	.31	.30	.30	.30	.29	.29	.28
	2	.32	.30	.29	.28	.29	.28	.27	.28	.27	.26	.25
	3	.30	.28	.26	.25	.27	.26	.25	.26	.25	.24	.23
0	4	.28	.26	.24	.23	.25	.24	.22	.24	.23	.22	.21
æ	5	.27	.24	.22	.21	.23	.22	.21	.23	.21	.20	.20
Ξ.	6	.25	.22	.21	.19	.22	.20	.19	.21	.20	.19	.18
Cavity Ratio	(.24	.21	.19	.18	.20	.19	.18	.20	.19	.17	.17
2	8	.23	.20 .18	.18 .17	.16	.19 .18	.17 .16	.16 .15	.19 .18	.17	.16	.16 .15
Room	10	.20	.10	.17	.15 .14	.10	.15	.13	.10	.16 .15	.15 .14	.13
- 1	RC_Ff	fortive	Coilin	n Cavi	ty Rofl	ertane	٥	RC_	Effective	llcW a	Refler	tanc

DESCRIPTION

100W R-40 FLOOD METAL HALIDE - 6700 LUMENS LOUVERED LENS TRIM CAT. NO. 300-D-X-LL-100MH TEST NO. 3LV1MR4F (6421)



FLOOD DISTRIBUTION LAMPS

Spacing Criterion

2800

CLEAR LENS

49.9% Total Luminaire Efficiency

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 20%

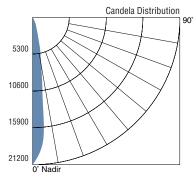
RW 70% 50% 30% 10% 50% 30% 10% 50% 30% 10% 50% 30% 10% 50% 30% 10% 50% 30% 10% 50% 30% 10% 50% 30% 10% 50% 30% 10% 50% 30% 10% 50% 30% 10% 50% 30% 10% 50%	.50 .46
	.46
1 56 55 53 52 51 50 50 50 49 48	
	44
2 .53 .50 .48 .46 .47 .46 .44 .46 .45 .43	.41
3 .50 .46 .43 .41 .44 .42 .40 .43 .41 .39	.38
4 .47 .42 .39 .37 .40 .38 .36 .39 .37 .35	.34
震 5 .44 .39 .36 .33 .37 .35 .33 .37 .34 .32	.31
= 6 .41 .36 .33 .30 .35 .32 .30 .34 .31 .30	.28
∮ 7 .39 .33 .30 .28 .32 .29 .27 .32 .29 .27	.26
5 8 .36 .31 .28 .25 .30 .27 .25 .30 .27 .25	.24
E 5 .44 .39 .36 .33 .37 .35 .33 .37 .34 .32 E 6 .41 .36 .33 .30 .35 .32 .30 .34 .30 E 7 .39 .33 .30 .28 .32 .29 .27 .32 .29 .27 .25 .30 .27 .25 E 9 .34 .29 .26 .23 .28 .25 .30 .27 .25 .30 E 10 .33 .27 .24 .22 .26 .24 .22 .26 .23 .28	.22
≥ 10 .33 .27 .24 .22 .26 .24 .22 .26 .23 .22	.21

RC-Effective Ceiling Cavity Reflectance RC-Effective Wall Reflectance

DESCRIPTION

100W R-40 FLOOD METAL HALIDE - 6700 LUMENS CLEAR LENS TRIM CAT. NO. 300-D/U/E-X-C-100MH/R40/FL TEST NO. 3CL1MR4F (6419)

SPOT DISTRIBUTION LAMPS FLAT LENS



Spacing Criterion 72.5% Total Luminaire Efficiency

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

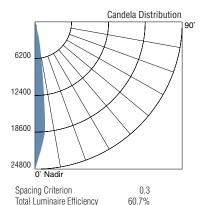
	Effect	tive F	loor	Cavit	y Rei	lecta	nce 2	20%				
	RC		80)%			50%			30%		0%
	RW	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
	0	.86	.86	.86	.86	.81	.81	.81	.77	.77	.77	.72
	1	.83	.82	.81	.79	.78	.77	.76	.75	.74	.74	.70
	2	.81	.78	.76	.74	.75	.73	.72	.73	.72	.70	.68
	3	.78	.75	.72	.70	.72	.70	.69	.71	.69	.68	.66
0	4	.76	.72	.69	.67	.70	.68	.66	.69	.67	.65	.64
ati	5	.74	.70	.67	.65	.68	.66	.64	.67	.65	.63	.62
Y.	6	.72	.67	.64	.62	.66	.64	.62	.65	.63	.61	.60
Ξ	7	.70	.65	.62	.60	.64	.62	.60	.63	.61	.60	.59
చ	8	.68	.63	.61	.59	.62	.60	.58	.62	.60	.58	.57
Room Cavity Ratio	9	.66	.62	.59	.57	.61	.58	.57	.60	.58	.56	.56
8	10	.65	.60	.57	.55	.59	.57	.55	.59	.57	.55	.54

RC-Effective Ceiling Cavity Reflectance RC-Effective Wall Reflectance

DESCRIPTION

100W PAR-38 SPOT METAL HALIDE - 5200 LUMENS FLAT LENS TRIM CAT. NO. 300-D-X-L-100MH/PAR38/SP TEST NO. 3L1MP3S (6432)

LENS WITH LOUVERS SPOT DISTRIBUTION LAMPS



COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 20%													
RC		80)%			50%			30%		0%		
RW	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%		
0 1 2 3 4 5 6 7 8 9	.72 .70 .68 .66 .64 .63 .61 .60 .59	.72 .69 .66 .64 .62 .60 .58 .56	.72 .68 .64 .62 .59 .57 .56 .54 .53	.72 .67 .63 .60 .58 .56 .54 .53	.67 .65 .63 .61 .60 .58 .57 .56	.67 .64 .62 .60 .58 .56 .55 .54	.67 .64 .61 .59 .57 .55 .54 .52	.65 .63 .61 .60 .59 .57 .56 .55	.65 .62 .61 .59 .57 .56 .55 .53	.65 .62 .60 .58 .56 .55 .53 .52	.61 .59 .58 .56 .55 .54 .52 .51 .50		
\Box	10 .56 .53 .51 .49 .52 .50 .49 .52 .50 .49 .48												

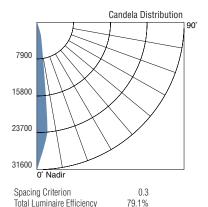
RC-Effective Ceiling Cavity Reflectance RC-Effective Wall Reflectance

DESCRIPTION

Total Luminaire Efficiency

100W PAR-38 SPOT METAL HALIDE - 5200 LUMENS LOUVERED LENS TRIM CAT. NO. 300-D-X-LL-100MH/PAR38/SF TEST NO. 3LV1MP3S (6433)

SPOT DISTRIBUTION LAMPS **CLEAR LENS**



COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

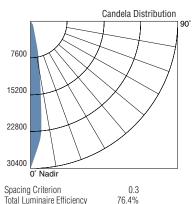
	Effect	ive F	loor	Cavit	y Rei	lecta	nce 2	0%				
	RC		80)%			50%			30%		0%
	RW	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
	0	.94	.94	.94	.94	.88	.88	.88	.84	.84	.84	.79
	1	.91	.90	.88	.87	.85	.84	.83	.82	.81	.81	.77
	2	.89	.86	.84	.82	.82	.81	.79	.80	.79	.78	.75
	3	.86	.83	.80	.78	.80	.78	.76	.78	.76	.75	.73
0	4	.84	.80	.77	.75	.78	.75	.74	.76	.74	.73	.71
æ	5	.82	.77	.75	.72	.76	.73	.71	.74	.72	.71	.70
Ξ.	6	.80	.75	.72	.70	.74	.71	.70	.73	.71	.69	.68
₹	7	.78	.73	.70	.68	.72	.70	.68	.71	.69	.67	.66
ొ	8	.76	.71	.69	.67	.70	.68	.66	.70	.68	.66	.65
Room Cavity Ratio	9	.74	.70	.67	.65	.69	.66	.65	.68	.66	.65	.64
ê	10	.73	.68	.65	.64	.67	.65	.63	.67	.65	.63	.62

RC-Effective Ceiling Cavity Reflectance RC-Effective Wall Reflectance

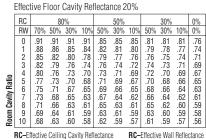
DESCRIPTION

100W PAR-38 SPOT METAL HALIDE - 5200 LUMENS CLEAR LENS TRIM CAT. NO. 300-D/U/E-X-C-100MH/PAR38/SP TEST NO. 3CL1MP3S (6446)

FLAT LENS SPOT DISTRIBUTION LAMPS



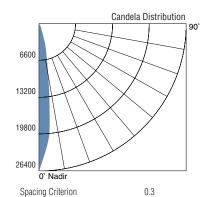
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD



DESCRIPTION

100W R-40 SPOT METAL HALIDE - 6700 LUMENS FLAT LENS TRIM CAT. NO. 300-D-X-L-100MH/R40/SP TEST NO. 3L1MR4S (6426)

LENS WITH LOUVERS SPOT DISTRIBUTION LAMOS



COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD Effective Floor Cavity Reflectance 20%

56.3%

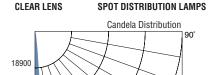
	RC		80)%			50%			30%		0%
	RW	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
	0	.67	.67	.67	.67	.63	.63	.63	.60	.60	.60	.56
	1	.65	.64	.63	.62	.60	.60	.59	.58	.58	.57	.55
	2	.63	.61	.60	.58	.58	.57	.56	.57	.56	.55	.53
	3	.61	.59	.57	.55	.57	.55	.54	.55	.54	.53	.52
_	4	.60	.57	.55	.53	.55	.54	.52	.54	.53	.52	.50
Cavity Ratio	5	.58	.55	.53	.51	.54	.52	.51	.53	.51	.50	.49
~	6	.57	.53	.51	.50	.52	.50	.49	.52	.50	.49	.48
ŧ	7	.55	.52	.50	.48	.51	.49	.48	.50	.49	.48	.47
బ	8	.54	.51	.48	.47	.50	.48	.47	.49	.48	.47	.46
틆	9	.53	.49	.47	.46	.49	.47	.46	.48	.47	.45	.45
Room	10	.52	.48	.46	.45	.48	.46	.45	.47	.46	.44	.44

RC-Effective Ceiling Cavity Reflectance RC-Effective Wall Reflectance

DESCRIPTION

100W R-40 SPOT METAL HALIDE - 6700 LUMENS LOUVERED LENS TRIM CAT. NO. 300-D-X-LL-100MH/R40/SP TEST NO. 3LV1MR4S (6422)

CLEAR LENS



56700 75600

Spacing Criterion Total Luminaire Efficiency

37800

0.2 87%

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD Effective Floor Cavity Reflectance 20%

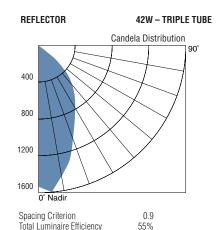
	nu		01	J7/0			JU70			3070		U70
	RW	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
	0	1.00	1.00	1.00	1.00	.97	.97	.97	.93	.93	.93	.87
	1	1.00	.99	.97	.96	.94	.92	.92	.90	.90	.89	.85
	2	.98	.95	.92	.90	.91	.89	.88	.88	.87	.86	.83
	3	.95	.91	.89	.86	.88	.86	.84	.86	.84	.83	.81
_	4	.93	.88	.85	.83	.86	.83	.82	.84	.82	.81	.79
퓵	5	.90	.86	.83	.80	.84	.81	.79	.82	.80	.79	.77
~	6	.88	.83	.80	.78	.82	.79	.77	.81	.78	.77	.75
- 15	7	.86	.81	.78	.76	.80	.77	.75	.79	.77	.75	.74
బ	8	.84	.79	.76	.74	.78	.76	.74	.77	.75	.73	.72
Room Cavity Ratio	9	.83	.78	.74	.72	.77	.74	.72	.76	.74	.72	.71
휸	10	.81	.76	.73	.71	.75	.72	.71	.75	.72	.71	.70

RC-Effective Ceiling Cavity Reflectance RC-Effective Wall Reflectance

DESCRIPTION

100W R-40 SPOT METAL HALIDE – 6700 LUMENS CLEAR LENS TRIM CAT. NO. 300-D/U/E-X-C-100MH/R40/SP

TEST NO. 3CL1MR4S (6424)



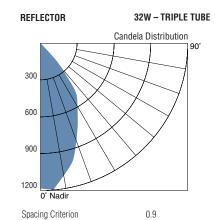
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHODEffective Floor Cavity Reflectance 20%

	RC		80)%			50%			30%		0%
	RW	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
	0	.65	.65	.65	.65	.61	.61	.61	.59	.59	.59	.55
	1	.62	.60	.59	.57	.57	.56	.55	.55	.54	.53	.50
	2	.58	.55	.53	.50	.52	.50	.49	.51	.49	.48	.46
	3	.55	.50	.47	.45	.48	.46	.44	.47	.45	.43	.41
_	4	.51	.46	.43	.40	.44	.42	.39	.43	41	.39	.37
9	5	.48	.43	.39	.36	.41	.38	.36	.40	.37	.35	.34
5	6	.45	.39	.36	.33	.38	.35	.32	.37	.34	.32	.31
₹	7	.42	.36	.33	.30	.35	.32	.30	.35	.32	.30	.28
3	8	.40	.34	.30	.28	.33	.30	.27	.32	.29	.27	.26
חשח נוועסיוו המטווו	9	.38	.32	.28	.25	.31	.28	.25	.30	.27	.25	.24
2	10	.36	.30	.26	.24	.29	.26	.23	.28	.25	.23	.22

RC-Effective Ceiling Cavity Reflectance RC-Effective Wall Reflectance

DESCRIPTION

42W TRIPLE TUBE – 3200 LUMENS REFLECTOR TRIM CAT. NO. 300-0-X-R-42F TEST NO. 3R42F (6485)



COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD Effective Floor Cavity Reflectance 20%

46.8%

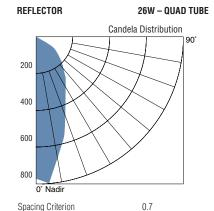
					,		1100 2					
	RC		80)%			50%			30%		0%
	RW	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
	0	.56	.56	.56	.56	.52	.52	.52	.50	.50	.50	.47
	1	.53	.52	.50	.49	.49	.48	.47	.47	.46	.46	.43
	2	.50	.48	.46	.44	.45	.44	.42	.44	.43	.42	.40
	2	.47	.44	.42	.40	.42	.40	.39	.41	.39	.38	.37
	4	.45	.41	.38	.36	.39	.37	.35	.38	.36	.35	.34
ã	5	.42	.38	.35	.33	.37	.34	.32	.36	.34	.32	.31
Æ	6	.40	.35	.32	.30	.34	.32	.30	.33	.31	.29	.29
€	7	.38	.33	.30	.28	.32	.29	.27	.31	.29	.27	.26
ပ္မ	8	.35	.31	.28	.26	.30	.27	.25	.29	.27	.25	.25
≣	9	.34	.29	.26	.24	.28	.25	.24	.28	.25	.24	.23
Room Cavity Ratio	10	.32	.27	.24	.22	.26	.24	.22	.26	.24	.22	.21
i	RC-Ef	fective	Ceilir	ig Cavi	ity Ref	lectano	e	RC-	Effectiv	e Wall	Refle	ctance

enective dening davity hellectance **no**-enective wan

DESCRIPTION

Total Luminaire Efficiency

32W TRIPLE TUBE – 2400 LUMENS REFLECTOR TRIM CAT. NO. 300-0-X-R-32F TEST NO. 3R32F (6488)



COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD Effective Floor Cavity Reflectance 20%

45.5%

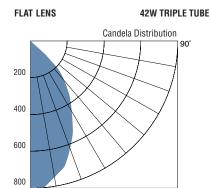
	_1100				,							
	RC		80)%			50%			30%		0%
	RW	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
	0	.54	.54	.54	.54	.51	.51	.51	.48	.48	.48	.46
	1	.51	.50	.48	.47	.47	.46	.45	.45	.44	.44	.41
	2	.48	.45	.43	.41	.43	.41	.40	.41	.40	.39	.37
	3	.45	.41	.38	.36	.39	.37	.35	.38	.36	.35	.33
_	4	.42	.38	.35	.32	.36	.34	.32	.35	.33	.31	.30
┋	5	.39	.34	.31	.29	.33	.30	.28	.32	.30	.28	.27
٤	6	.37	.32	.28	.26	.31	.28	.26	.30	.27	.26	.25
₹	7	.34	.29	.26	.24	.28	.26	.24	.28	.25	.23	.23
3	8	.32	.27	.24	.22	.26	.24	.22	.26	.23	.22	.21
≣ I	9	.31	.25	.22	.20	.25	.22	.20	.24	.22	.20	.19
noom cavity natio	10	.29	.24	.21	.19	.23	.20	.19	.23	.20	.18	.18

RC-Effective Ceiling Cavity Reflectance RC-Effective Wall Reflectance

DESCRIPTION

Total Luminaire Efficiency

26W QUAD TUBE – 1800 LUMENS REFLECTOR TRIM CAT. NO. 300-0-X-R-26F TEST NO. 3R26F (6482)



Spacing Criterion 0.9
Total Luminaire Efficiency 38.7%

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHODEffective Floor Cavity Reflectance 20%

					, .							
	RC		80)%			50%			30%		0%
	RW	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
	0	.46	.46	.46	.46	.43	.43	.43	.41	.41	.41	.39
	1	.43	.42	.41	.40	.40	.39	.38	.38	.38	.37	.35
	2	.41	.39	.37	.35	.37	.35	.34	.35	.34	.33	.32
	3	.38	.35	.33	.31	.34	.32	.30	.33	.31	.30	.29
	4	.36	.32	.30	.28	.31	.29	.27	.30	.28	.27	.26
ij	5	.34	.30	.27	.25	.29	.26	.25	.28	.26	.24	.24
æ	6	.31	.27	.25	.23	.26	.24	.23	.26	.24	.22	.22
€	7	.30	.25	.23	.21	.25	.22	.21	.24	.22	.20	.20
ca	8	.28	.24	.21	.19	.23	.21	.19	.23	.20	.19	.18
트	9	.26	.22	.19	.18	.21	.19	.18	.21	.19	.17	.17
Room Cavity Ratio	10	.25	.21	.18	.16	.20	.18	.16	.20	.18	.16	.16

RC–Effective Ceiling Cavity Reflectance RC–Effective Wall Reflectance

DESCRIPTION

42W TRIPLE TUBE – 3200 LUMENS FLAT LENS TRIM CAT. NO. 300-D-X-L-42F TEST NO. 3L42F (6480) FLAT LENS

32W TRIPLE TUBE

Candela Distribution

90'

200

Spacing Criterion 0.9 Total Luminaire Efficiency 25.3%

0° Nadir

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHODEffective Floor Cavity Reflectance 20%

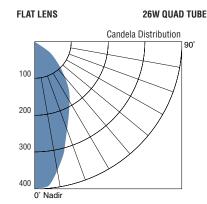
	RC		80)%			50%			30%		0%
	RW	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
	0	.30	.30	.30	.30	.28	.28	.28	.27	.27	.27	.25
	1	.29	.28	.27	.26	.26	.26	.25	.25	.25	.24	.23
	2	.27	.25	.24	.23	.24	.23	.23	.23	.23	.22	.21
	3	.25	.23	.22	.21	.22	.21	.20	.22	.21	.20	.19
_	4	.24	.22	.20	.19	.21	.20	.19	.20	.19	.18	.18
픑	5	.22	.20	.18	.17	.19	.18	.17	.19	.18	.17	.16
æ	6	.21	.19	.17	.16	.18	.17	.16	.18	.16	.15	.15
- ₹	7	.20	.17	.16	.14	.17	.15	.14	.17	.15	.14	.14
బ్ర	8	.19	.16	.15	.13	.16	.14	.13	.15	.14	.13	.13
트	9	.18	.15	.14	.12	.15	.13	.12	.15	.13	.12	.12
Room Cavity Ratio	10	.17	.14	.13	.12	.14	.12	.12	.14	.12	.11	.11
				-								

RC-Effective Ceiling Cavity Reflectance RC-Effective Wall Reflectance

DESCRIPTION

32W TRIPLE TUBE –2400 LUMENS FLAT LENS TRIM CAT. NO. 300-D-X-L-32F TEST NO. 3L32F (6486)

LENS WITH LOUVER



COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD Effective Floor Cavity Reflectance 20%

32.5%

RC-Effective Ceiling Cavity Reflectance RC-Effective Wall Reflectance

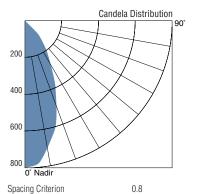
DESCRIPTION 26W QUAD TUBE – 1800 LUMENS FLAT LENS TRIM

CAT. NO. 300-D-X-L-26F TEST NO. 3L26F (6481)

Spacing Criterion

Total Luminaire Efficiency

LENS WITH LOUVER 42W TRIPLE TUBE



COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 20%

	RC		80)%			50%			30%		0%
	RW	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
	0	.28	.28	.28	.28	.26	.26	.26	.25	.25	.25	.23
	1	.26	.26	.25	.24	.24	.24	.23	.23	.23	.23	.22
	2	.25	.24	.23	.22	.23	.22	.21	.22	.21	.21	.20
	3	.24	.22	.21	.20	.21	.20	.19	.20	.20	.19	.18
_	4	.22	.20	.19	.18	.20	.18	.18	.19	.18	.17	.17
≣	5	.21	.19	.17	.16	.18	.17	.16	.18	.17	.16	.16
ž	6	.20	.18	.16	.15	.17	.16	.15	.17	.16	.15	.14
E	7	.19	.17	.15	.14	.16	.15	.14	.16	.15	.14	.13
3	8	.18	.16	.14	.13	.15	.14	.13	.15	.14	.13	.12
≣	9	.17	.15	.13	.12	.14	.13	.12	.14	.13	.12	.12
коот салту капо	10	.16	.14	.12	.11	.13	.12	.11	.13	.12	.11	.11
	RC-E	fective	Ceilir	ig Cavi	ity Ref	lectano	e	RC-	Effectiv	e Wall	Refle	ctance

DESCRIPTION
42W TRIPLE TUBE – 3200 LUMENS
LOUVERED LENS TRIM
CAT. NO. 300-D-X-LL-42F
TEST NO. 3LV42F (6484)

Total Luminaire Efficiency

Candela Distribution 90°

32W TRIPLE TUBE

Spacing Criterion
Total Luminaire Efficiency 18

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHODEffective Floor Cavity Reflectance 20%

	RC		80)%			50%			30%		0%	l
	RW	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%	
	0	.22	.22	.22	.22	.21	.21	.21	.20	.20	.20	.19	
	1	.21	.21	.20	.20	.19	.19	.19	.19	.19	.18	.17	
	2	.20	.19	.18	.18	.18	.18	.17	.18	.17	.17	.16	
	3	.19	.18	.17	.16	.17	.16	.16	.17	.16	.15	.15	
_	4	.18	.17	.16	.15	.16	.15	.14	.16	.15	.14	.14	
뜵	5	.17	.15	.14	.14	.15	.14	.13	.15	.14	.13	.13	
æ	6	.16	.14	.13	.13	.14	.13	.12	.14	.13	.12	.12	
€	7	.15	.14	.12	.12	.13	.12	.12	.13	.12	.11	.11	
ē	8	.15	.13	.12	.11	.12	.12	.11	.12	.11	.11	.10	
Ε	9	.14	.12	.11	.10	.12	.11	.10	.12	.11	.10	.10	
Room Cavity Ratio	10	.13	.11	.10	.10	.11	.10	.10	.11	.10	.10	.9	

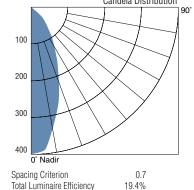
RC-Effective Ceiling Cavity Reflectance

DESCRIPTION

32W TRIPLE TUBE – 2400 LUMENS

32W TRIPLE TUBE – 2400 LUMENS LOUVERED LENS TRIM CAT. NO. 300-D-X-LL-32F TEST NO. 3LV32F (6487)

LENS WITH LOUVER 26W TRIPLE TUBE Candela Distribution



COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD Effective Floor Cavity Reflectance 20%

	RC		80)%			50%			30%		0%
	RW	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
	0	.23	.23	.23	.23	.22	.22	.22	.21	.21	.21	.19
	1	.22	.21	.21	.20	.20	.20	.19	.19	.19	.19	.18
	2	.21	.20	.19	.18	.19	.18	.17	.18	.18	.17	.16
		.19	.18	.17	.16	.17	.16	.16	.17	.16	.16	.15
_	4	.18	.17	.16	.15	.16	.15	.14	.16	.15	.14	.14
픑	5	.17	.16	.14	.13	.15	.14	.13	.15	.14	.13	.13
æ	6	.16	.15	.13	.12	.14	.13	.12	.14	.13	.12	.12
€	7	.16	.14	.12	.11	.13	.12	.11	.13	.12	.11	.11
ē	8	.15	.13	.12	.11	.12	.11	.11	.12	.11	.11	.10
듵	9	.14	.12	.11	.10	.12	.11	.10	.12	.11	.10	.10
Room Cavity Ratio	10	.13	.11	.10	.9	.11	.10	.9	.11	.10	.9	.9

RC-Effective Ceiling Cavity Reflectance RC-Effective Wall Reflectance

DESCRIPTION

26W QUAD TUBE – 1800 LUMENS LOUVERED LENS TRIM CAT. NO. 300-D-X-LL-26F TEST NO. 3LV26F (6483)

BAFFLE TRIM R- LAMP, FLOOD Candela Distribution 90° 1000 1500 2000

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD Effective Floor Cavity Reflectance 20%

69.8%

	_1100		1001	Ouvit	, 1101	ioota	100 2	.0 /0				
	RC		80)%			50%			30%		0%
	RW	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
I	0	.83	.83	.83	.83	.78	.78	.78	.74	.74	.74	.70
ı	1	.79	.77	.75	.73	.73	.71	.70	.70	.69	.68	.65
ı	2	.75	.71	.68	.65	.68	.65	.63	.65	.64	.62	.59
ı	3	.70	.66	.62	.59	.63	.60	.58	.61	.59	.57	.55
ı	4	.67	.61	.57	.54	.59	.55	.53	.57	.54	.52	.50
ı	5	.63	.57	.52	.49	.55	.51	.48	.53	.50	.48	.46
	6	.59	.53	.48	.45	.51	.47	.44	.50	.47	.44	.43
1	7	.56	.49	.45	.42	.48	.44	.41	.47	.43	.41	.40
	8	.53	.46	.42	.39	.45	.41	.38	.44	.41	.38	.37
ı	9	.50	.43	.39	.36	.42	.38	.36	.42	.38	.36	.34
ı	10	.48	.41	.36	.34	.40	.36	.33	.39	.36	.33	.32

 $\textbf{RC-} \\ \textbf{Effective Ceiling Cavity Reflectance} \qquad \textbf{RC-} \\ \textbf{Effective Wall Reflectance}$

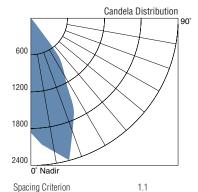
DESCRIPTION

Spacing Criterion

Total Luminaire Efficiency

300W R-40 FL00D – 3030 LUMENS BLACK BAFFLE TRIM CAT. NO. 300-0-X-B-300/R40/FL TEST NO. 3B30R4F (6497)

BAFFLE TRIM R- LAMP, SPOT



COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD Effective Floor Cavity Reflectance 20%

	RC		80)%			50%			30%		0%
	RW	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
	0	.87	.87	.87	.87	.82	.82	.82	.78	.78	.78	.73
	1 2 3	.83	.81	.80	.78	.77	.76	.74	.74	.73	.72	.69
	2	.79	.76	.73	.70	.72	.70	.68	.70	.68	.67	.64
		.75	.71	.67	.64	.68	.65	.63	.66	.64	.62	.60
_	4 5	.72	.66	.62	.59	.64	.60	.58	.62	.59	.57	.55
¥		.68	.62	.58	.54	.60	.56	.54	.59	.56	.53	.52
ë	6	.65	.58	.54	.50	.56	.53	.50	.55	.52	.50	.48
£	7	.61	.54	.50	.47	.53	.49	.47	.52	.49	.46	.45
S	8	.58	.51	.47	.44	.50	.46	.44	.49	.46	.43	.42
≣	9	.55	.48	.44	.41	.47	.43	.41	.47	.43	.41	.40
Room Cavity Ratio	10	.53	.46	.41	.38	.45	.41	.38	.44	.41	.38	.37

RC-Effective Ceiling Cavity Reflectance RC-Effective Wall Reflectance

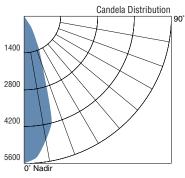
PAR- LAMP, SPOT

DESCRIPTION

Total Luminaire Efficiency

300W R-40 SPOT – 3030 LUMENS BLACK BAFFLE TRIM CAT. NO. 300-0-X-B-300/R40/SP TEST NO. 3B30R4S (6496)

BAFFLE TRIM PAR- LAMP, FLOOD



Spacing Criterion 0.7 Total Luminaire Efficiency 75.5%

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHODEffective Floor Cavity Reflectance 20%

	Effect	tive F	loor	Cavit	y Ret	lecta	nce 2	0%				
	RC		80)%			50%			30%		0%
	RW	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
	0	.90	.90	.90	.90	.84	.84	.84	.80	.80	.80	.76
	1	.86	.84	.83	.81	.80	.79	.78	.77	.76	.75	.72
	2	.83	.80	.77	.75	.76	.74	.72	.74	.72	.71	.68
	3	.79	.75	.72	.69	.72	.70	.68	.71	.69	.67	.65
_	4	.76	.71	.68	.65	.69	.66	.64	.68	.65	.63	.61
Ĕ	5	.73	.68	.64	.61	.66	.63	.60	.65	.62	.60	.58
Ĕ	6	.70	.65	.61	.58	.63	.60	.57	.62	.59	.57	.56
E	7	.67	.62	.58	.55	.60	.57	.55	.59	.56	.54	.53
מושה עוועם השנוו	8	.65	.59	.55	.52	.58	.54	.52	.57	.54	.52	.51
Ė	9	.62	.56	.52	.50	.55	.52	.50	.55	.52	.50	.49
3	10	.60	.54	.50	.48	.53	.50	.48	.53	.50	.47	.46

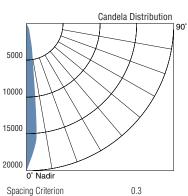
RC-Effective Ceiling Cavity Reflectance RC-Effective Wall Reflectance

DESCRIPTION

250W PAR-38 FLOOD – 3600 LUMENS BLACK BAFFLE TRIM CAT. NO. 300-0-X-B-250/PAR38/FL TEST NO. 3B25P3F (6499)

BAFFLE TRIM

Total Luminaire Efficiency



COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHODEffective Floor Cavity Reflectance 20%

89.2%

	Effec	tive F	loor	Cavit	y Ret	lecta	nce 2	0%				
	RC		80)%			50%			30%		0%
	RW	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
	0	1.00 1.00	1.00 1.00	1.00 .99	1.00 .98	.99 .96	.99 .94	.99 .93	.95 .92	.95 .91	.95 .91	.89 .87
2 1.00 .97 .94 .92 .92 .90 .89 .90 .88 .87 .												
		.97 .94	.93	.90 .86	.87 .83	.89 .87	.87 .84	.85 .82	.87 .85	.85 .83	.84 .81	.81 .79
aţi	4 5	.91	.86	.83	.80	.84	.81	.79	.83	.80	.79	.77
Ŋ.	6	.89	.83	.80	.77	.82	.79	.77	.81	.78	.76	.75
avii	7 8	.86 .84	.81 .79	.77 .75	.75 .73	.80 .77	.77 .75	.74 .72	.79 .77	.76 .74	.74 .72	.73 .71
Room Cavity Ratio	9	.82	.77	.73	.71	.76	.73	.71	.75	.72	.70	.69
준	10	.80	.75	.71	.69	.74	.71	.69	.73	.71	.69	.68
											D (1	

RC-Effective Ceiling Cavity Reflectance RC-Effective Wall Reflectance

DESCRIPTION

250W PAR-38 SPOT – 3600 LUMENS BLACK BAFFLE TRIM CAT. NO. 300-0-X-B-250/PAR38/SP TEST NO. 3B25P3S (6498)

PAR- LAMP, FLOOD Candela Distribution 90° 2400 3600 4800

Spacing Criterion (Total Luminaire Efficiency 67.1

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

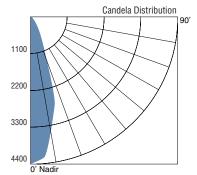
	Elleci	ive r	1001	Gavil	y ne	ilectal	ice z	.U 7/0				
	RC		80)%			50%			30%		0%
	RW	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
	0	.80	.80	.80	.80	.75	.75	.75	.71	.71	.71	.67
	1	.77	.75	.73	.72	.71	.70	.69	.68	.68	.67	.64
	2	.73	.71	.68	.66	.67	.65	.64	.65	.64	.63	.60
		.70	.67	.64	.61	.64	.62	.60	.62	.60	.59	.57
	4	.67	.63	.60	.57	.61	.58	.56	.60	.57	.56	.54
흝	5	.65	.60	.56	.54	.58	.55	.53	.57	.54	.53	.51
æ	6	.62	.57	.53	.51	.55	.52	.50	.54	.52	.50	.49
€	7	.59	.54	.51	.48	.53	.50	.48	.52	.49	.47	.46
S	8	.57	.52	.48	.46	.51	.48	.45	.50	.47	.45	.44
듵	9	.55	.49	.46	.44	.48	.45	.43	.48	.45	.43	.42
Room Cavity Ratio	10	.53	.47	.44	.42	.46	.43	.41	.46	.43	.41	.40

RC-Effective Ceiling Cavity Reflectance RC-Effective Wall Reflectance

DESCRIPTION

250W PAR-38 FLOOD – 3600 LUMENS FLAT LENS TRIM CAT. NO. 300-D-X-L-250/PAR38/FL TEST NO. 3L25P3F (6506)

LENS WITH LOUVER PAR- LAMP, FLOOD



COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

47.1%

	Effect	tive F	loor	Cavit	y Re	llecta	nce 2	20%				
	RC		80)%			50%			30%		0%
	RW	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
	0	.56	.56	.56	.56	.52	.52	.52	.50	.50	.50	.47
	1	.54	.53	.52	.51	.50	.49	.49	.48	.48	.47	.45
	2	.52	.50	.48	.47	.48	.46	.45	.46	.45	.45	.43
		.50	.47	.45	.44	.46	.44	.43	.44	.43	.42	.41
_	4	.48	.45	.43	.41	.44	.42	.41	.43	.41	.40	.39
差	5	.46	.43	.41	.39	.42	.40	.38	.41	.39	.38	.37
č	6	.44	.41	.39	.37	.40	.38	.37	.39	.38	.36	.36
€	7	.43	.39	.37	.35	.38	.36	.35	.38	.36	.35	.34
ē	8	.41	.38	.35	.34	.37	.35	.33	.36	.35	.33	.33
₽	9	.40	.36	.34	.32	.35	.33	.32	.35	.33	.32	.31
Room Cavity Ratio	10	.38	.35	.32	.31	.34	.32	.31	.34	.32	.31	.30
	DO -		0 .1.	0				-	F11 11	147.11	D (I	

RC-Effective Ceiling Cavity Reflectance RC-Effective Wall Reflectance

DESCRIPTION

Spacing Criterion

Total Luminaire Efficiency

250W PAR-38 FLOOD — 3600 LUMENS LOUVERED LENS TRIM CAT. NO. 300-D-X-LL-250/PAR38/FL TEST NO. 3LV25P3F (6505)

Candela Distribution 90° 1400 2800 0° Nadir

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

0.7

68.6%

Effective Floor Cavity Reflectance 20%

	RC		80)%			50%			30%		0%
	RW	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
	0	.82	.82	.82	.82	.76	.76	.76	.73	.73	.73	.69
	1	.78	.77	.75	.74	.73	.72	.71	.70	.69	.68	.65
	2	.75	.72	.70	.68	.69	.67	.66	.67	.66	.64	.62
	3	.72	.69	.66	.63	.66	.64	.62	.64	.62	.61	.59
_	4	.69	.65	.62	.59	.63	.60	.58	.62	.59	.58	.56
흝	5	.67	.62	.59	.56	.60	.57	.55	.59	.57	.55	.54
20	6	.64	.59	.56	.53	.58	.55	.53	.57	.54	.52	.51
€	7	.62	.56	.53	.51	.55	.52	.50	.54	.52	.50	.49
Ça	8	.59	.54	.51	.48	.53	.50	.48	.52	.50	.48	.47
ㅌ	9	.57	.52	.48	.46	.51	.48	.46	.50	.48	.46	.45
Room Cavity Ratio	10	.55	.50	.46	.44	.49	.46	.44	.48	.46	.44	.43
											5 "	

RC-Effective Ceiling Cavity Reflectance RC-Effective Wall Reflectance

DESCRIPTION

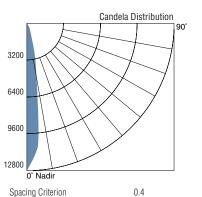
Spacing Criterion

Total Luminaire Efficiency

250W PAR-38 FLOOD – 3600 LUMENS CONVEX LENS TRIM CAT. NO. 300-D/U/E-X-C-250/PAR38/FL TEST NO. 3CL25P3F (6512)

FLAT LENS

PAR- LAMP, SPOT



COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

	LIIGU	IIVG I	IUUI	Cavil	y mei	iccia	1166 2	.0 /0				
	RC		80)%			50%			30%		0%
	RW	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
	0	.77	.77	.77	.77	.72	.72	.72	.69	.69	.69	.65
	1	.74	.73	.72	.71	.69	.68	.68	.67	.66	.66	.63
	2	.72	.70	.68	.67	.67	.66	.65	.65	.64	.63	.61
	3	.70	.67	.65	.63	.65	.63	.62	.63	.62	.61	.59
_	4	.68	.65	.63	.61	.63	.61	.60	.62	.60	.59	.58
¥	5	.66	.63	.60	.59	.61	.59	.58	.60	.59	.57	.56
~	6	.65	.61	.59	.57	.60	.58	.56	.59	.57	.56	.55
€	7	.63	.59	.57	.55	.58	.56	.55	.58	.56	.54	.54
బ	8	.62	.58	.55	.54	.57	.55	.53	.56	.54	.53	.52
트	9	.60	.56	.54	.52	.55	.53	.52	.55	.53	.52	.51
Room Cavity Ratio	10	.59	.55	.53	.51	.54	.52	.51	.54	.52	.51	.50
	RC-F	ffective	Ceilir	nn Cavi	tv Ref	lectano	-ρ	RC-	Effectiv	e Wall	l Refle	rtance

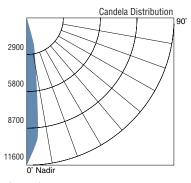
DECORPORATION

DESCRIPTION

250W PAR-38 SPOT – 3600 LUMENS FLAT LENS TRIM CAT. NO. 300-D-X-L-250/PAR38/SP TEST NO. 3L25P3S (6508)

Total Luminaire Efficiency

LENS WITH LOUVER PAR- LAMP, SPOT



COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD
Effective Floor Cavity Reflectance 20%

46.6%

	LIIGG	LIVUI	1001	Oavit	унсы	ισσια	100 2	.0 /0				
	RC		80)%			50%			30%		0%
	RW	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
	0	.55	.55	.55	.55	.52	.52	.52	.50	.50	.50	.47
	1	.54	.53	.52	.51	.50	.50	.49	.48	.48	.48	.46
	2	.52	.51	.50	.49	.49	.48	.47	.47	.47	.46	.45
		.51	.49	.48	.47	.47	.46	.45	.46	.46	.45	.44
_	4	.50	.48	.46	.45	.46	.45	.44	.45	.44	.44	.43
┋╽	5	.49	.46	.45	.44	.45	.44	.43	.45	.43	.43	.42
5	6	.48	.45	.44	.42	.44	.43	.42	.44	.43	.42	.41
FI	7	.47	.44	.42	.41	.43	.42	.41	.43	.42	.41	.40
3	8	.46	.43	.41	.40	.42	.41	.40	.42	.41	.40	.40
≣l	9	.45	.42	.41	.40	.42	.40	.39	.41	.40	.39	.39
חשח לוווסחוווסחוווסחוו	10	.44	.41	.40	.39	.41	.40	.39	.41	.39	.39	.38

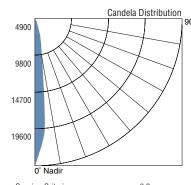
 $\textbf{RC-} \\ \textbf{Effective Ceiling Cavity Reflectance} \qquad \qquad \textbf{RC-} \\ \textbf{Effective Wall Reflectance}$

DESCRIPTION

250W PAR-38 SPOT – 3600 LUMENS LOUVERED LENS TRIM CAT. NO. 300-D-X-LL-250/PAR38/SP TEST NO. 3LV25P3S (6507)

Total Luminaire Efficiency

CLEAR LENS PAR- LAMP, SPOT Candela Distribution



Spacing Criterion 0.3 Total Luminaire Efficiency 71.2%

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD Effective Floor Cavity Reflectance 20%

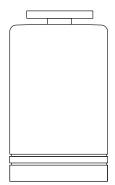
	RU		δl	J%			50%			30%		0%
	RW	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
Ī	0	.85	.85	.85	.85	.79	.79	.79	.76	.76	.76	.71
	1	.82	.81	.80	.79	.77	.76	.75	.74	.73	.73	.70
	2	.80	.78	.76	.74	.74	.73	.72	.72	.71	.70	.68
	3	.78	.75	.73	.71	.72	.71	.69	.71	.69	.68	.66
_	4	.76	.72	.70	.68	.70	.69	.67	.69	.68	.66	.65
Cavity Ratio	5	.74	.70	.68	.66	.69	.67	.65	.68	.66	.65	.63
æ	6	.72	.68	.66	.64	.67	.65	.63	.66	.64	.63	.62
€	7	.71	.67	.64	.62	.66	.63	.62	.65	.63	.62	.61
ē	8	.69	.65	.63	.61	.64	.62	.61	.64	.62	.60	.60
≡	9	.68	.64	.61	.60	.63	.61	.59	.62	.61	.59	.58
Room	10	.66	.62	.60	.58	.62	.60	.58	.61	.59	.58	.57
				-								

RC-Effective Ceiling Cavity Reflectance RC-Effective Wall Reflectance

DESCRIPTION

250W PAR-38 SPOT – 3600 LUMENS CLEAR LENS TRIM CAT. NO. 300-D/U/E-X-C-250/PAR38/SP TEST NO. 3CL25P3S (6513)

GENERAL DESCRIPTION: The Gardco 300 LINE is a series of compact, high performance cylinder luminaires in a variety of styles and mounting configurations. The Open Downlight style uses high intensity discharge, incandescent or fluorescent lamps. Housings are die cast aluminum with twin architectural reveals located near the luminaire apertures. A choice of two (2) light control styles and three (3) mounting options is available. Luminaires are finished with a fade and abrasion resistant polyester powdercoat offered in five standard colors.



ORDERING

example	PREFIX	MODEL 0	MOUNTING C	TRIMS		HPS	VOLTAGE ⁶ — 120 ——	FINISH BRP	OPTIONS F
Ψ.	300	O Open Downlight		Reflector Black Baffle	E17 50MH ⁴ 70MH ⁴ 100MH ⁴ 50HPS 70HPS 100HPS Fluorescent 26QF ⁵ 32TRF ⁵ 42TRF ⁵	PAR38 P70MH³ P100MH³ P70HPS³ Incandescent 250PAR38³ 300R40³	120 277	BRP BLP WP NP BGP VP OC SC	F PCB DM WS
NOTE	ES:				MH Metal H HPS High P QF Quad Flu	ressure Sodium			
1 0	Standard nondant lo	oath is 10" Stated langth is the distance	from the cailing to the top of the lumina	iro and takes into	TRF Triple T	ube Fluorescent			

- 1. Standard pendant length is 18". Stated length is the distance from the ceiling to the top of the luminaire and takes into account the mounting hardware. For other stem lengths, add desired length in inches after "P." ex. 300-D-P24-L-50HPS-120-BRP (for 24").
- 2. Luminaires cannot be field modified to change optics or lamp types.
- Not available with reflector (R) trim.
- Must use open fixture rated E-17 Metal Halide lamps
- Fluorescent ONLY available with reflector (R) Trims

RECOMMENDED DIMMER CONTROLS:

Consult factory for other voltages.

FINISH

Other controls are available, please contact ESI for listing. Derate the power by 80%. For example, a 100 watt dimmer may only drive 80w of these ballasts.

DIM-F REVERSED PHASE CONTROL

Lightolier	Rated Power
ZP260ESI	260W
ZP425ESI	425W
OS300ESI	300VA
OH500ESI	500VA
MP525ESI	525W
MP625ESI	625W

Bronze Paint BI P Black Paint NP Natural Aluminum Paint WP White Paint BGP Beige Paint Verde Green Paint Optional Color Paint

Specify RAL designation as shown in Color Selection Guide. ex OC-RAI 7024 Special Color Paint

(Must supply color chip)

OPTIONS

Button Type Photocontrol (Wall Mount only) Fluorescent Dimming (42TRF 120V only)

Wall Mounted Box for Surface or Through Wall Conduit

SPECIFICATIONS

HOUSING: Housings are die cast aluminum in a single-piece cylindrical form of corrosion resistant alloy, 1/8" min. wall thickness. Units are 7.5" in diameter and 12" in height, nominal measurements.

MOUNTING

CEILING (C): Provides for direct ceiling mount as shown.

PENDANT ASSEMBLY (P): Swivel pendant assembly with locking set screws. Standard pendant length is 18". Stated length is the distance from the ceiling to the top of the luminaire and takes into account the mounting hardware. For other stem lengths, add desired length in inches after "P". Can accommodate 35° sloped ceiling maximum.

WALL BRACKET (W): Cast aluminum canopy with integrated aluminum arm secured to housing with (2) 5/16" bolts. Requires mounting to a structural member of the building.

LIGHT CONTROL (TRIM)

REFLECTOR (R): Reflectors are composed of spun Alzak® components, electro-polished, anodized and sealed. Reflectors for compact fluorescent lamps feature a dual stage construction.

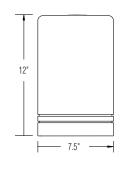
BAFFLE (B): Step black baffles are die cast aluminum and finished with black TGIC powdercoat.

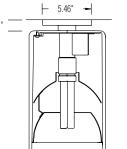
ELECTRICAL: Internal ballast will be provided based on the specified lamp configuration. Standard fluorescent ballasts are solid state. Standard dimming fluorescent units have starting temperature of 50°F (10°C). Dimming range is 15% to 100% (42F/120v only).

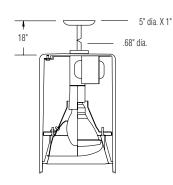
LAMPHOLDER: Pulse rated medium base lampholders are glazed porcelain with nickel-plated screw shell. Fluorescent lampholders are high temperature thermoplastic (PBT) with brass alloy contacts.

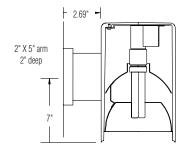
FINISH: Each luminaire receives a fade and abrasion resistant. electrostatically applied, thermally cured, textured TGIC polyester powdercoat finish.

LABELS: All fixtures bear UL or CSA (or CUL) (where applicable) Wet Location labels.



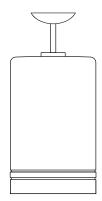






300 LINE ENCLOSED DOWNLIGHT

GENERAL DESCRIPTION: The Gardco 300 LINE is a series of compact, high performance cylinder luminaires in a variety of styles and mounting configurations. The Enclosed Downlight style uses high intensity discharge, incandescent or fluorescent lamps. Housings are die cast aluminum with twin architectural reveals located near the luminaire apertures. A choice of two (2) light control styles and three (3) mounting options is available. Luminaires are finished with a fade and abrasion resistant polyester powdercoat offered in five standard colors.



ORDFRING

<u>e</u>	PREFIX	MODEL	MOUNTING	TRIMS	LA	MP	VOLTAGE ³	FINISH	OPTION
example	300	D	C	L _	50	HPS	120	BRP	_ F
	300	D Enclosed Downlight	C Ceiling P Pendant W Wall	L Solite Lens LL Solite Lens w/Louver	50MH 70MH 100MH 50HPS 70HPS 100HPS	PAR38 P70MH P100MH P70HPS R40 R70MH R100MH	120 277	BRP BLP WP NP BGP VP OC SC	F PCB DM WS
					26QF 32TRF 42TRF	250PAR38 300R40			
NOTE		length is 18". Stated length is the distance	from the ceiling to the top of the lum	ninaire and takes into		ressure Sodium			

- account the mounting hardware. For other stem lengths, add desired length in inches after "P." ex. 300-D-P24-L-
- Luminaires cannot be field modified to change optics or lamp types.
- 3. Consult factory for other voltages.

TRF Triple Tube Fluorescent

RECOMMENDED DIMMER CONTROLS:

Other controls are available, please contact ESI for listing.

Derate the power by 80%. For example, a 100 watt dimmer may only drive 80w of these ballasts.

DIM-F REVERSED PHASE CONTROL

DIINI-E VENEUSED	PHASE GUIN
Lightolier	Rated Power
ZP260ESI	260W
ZP425ESI	425W
OS300ESI	300VA
OH500ESI	500VA
MP525ESI	525W
MP625ESI	625W

FINISH

Bronze Paint Black Paint ΝP Natural Aluminum Paint White Paint

BGP Beige Paint Verde Green Paint Optional Color Paint Specify RAL designation as shown in Color Selection Guide.

ex. OC-RAL7024 Special Color Paint (Must supply color chip)

OPTIONS

Button Type Photocontrol (Wall Mount only) Fluorescent Dimming (42TRF 120V only)

Wall Mounted Box for Surface or Through

Wall Conduit

SPECIFICATIONS

HOUSING: Housings are die cast aluminum in a single-piece cylindrical form of corrosion resistant alloy, 1/8" min. wall thickness. Units are 7.5" in diameter and 12" in height, nominal measurements.

MOUNTING

CEILING (C): Provides for direct ceiling mount as shown.

PENDANT ASSEMBLY (P): Swivel pendant assembly with locking set screws. Standard pendant length is 18". Stated length is the distance from the ceiling to the top of the luminaire and takes into account the mounting hardware. For other stem lengths, add desired length in inches after "P." Can accommodate 35° slope to ceiling maximum.

WALL BRACKET (W): Cast aluminum canopy with integrated aluminum arm secured to housing with (2) 5/16" bolts. Requires mounting to a structural member of the building.

LIGHT CONTROL (TRIM)

LENS (L): Lens units consist of a Solite® glass lens mounted to a die cast aluminum trim support assembly.

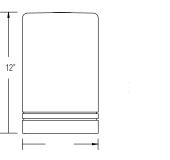
LENS WITH LOUVER (LL): Lens with louver units consists of a Solite® glass lens mounted to a die cast aluminum trim support assembly, including 1 5/8" x 1 5/8" square louvers with a nominal depth of 1".

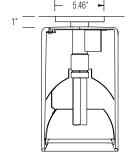
ELECTRICAL: Internal ballast will be provided based on the specified lamp configuration. Standard fluorescent ballasts are solid state. Standard dimming fluorescent units have starting temperature of 50°F (10°C). Dimming range is 15% to 100% (42F/120v only).

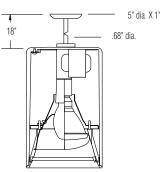
LAMPHOLDER: Pulse rated medium base lampholders are glazed porcelain with nickel-plated screw shell. Fluorescent lampholders are high temperature thermoplastic (PBT) with brass alloy contacts.

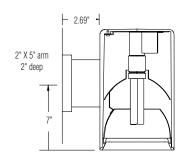
FINISH: Each luminaire receives a fade and abrasion resistant, electrostatically applied, thermally cured, textured TGIC polyester powder coat finish.

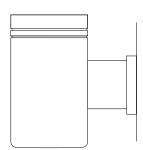
LABELS: All fixtures bear UL or CSA (or CUL) (where applicable) Wet Location labels.











ORDERING

ple	PREFIX	MODEL	MOUNTING	TRIMS		MP	VOLTAGE ²	FINISH	OPTIONS
example	300	U	W	CL	50	HPS	120	BRP	_ F
Đ	300	U Enclosed Uplight	W Wall	CL Clear Lens	50MH 70MH 100MH 50HPS 70HPS 100HPS	PAR38 P70MH P100MH P70HPS R40 R70MH R100MH Incandescent 250PAR38	120 277	BRP BLP WP NP BGP VP OC SC	F PCB WS
						300R40			

NOTES:

FINISH

1. Luminaires cannot be field modified to change optics or lamp types.

2. Consult factory for other voltages.

MH Metal Halide HPS High Pressure Sodium

Bronze Paint Black Paint Natural Aluminum Paint White Paint

Beige Paint Verde Green Paint

Optional Color Paint Specify RAL designation as shown in Color Selection Guide. ex. OC-RAL7024 Special Color Paint

(Must supply color chip)

OPTIONS

Button Type Photocontrol (Wall Mount only) Fluorescent Dimming (42TRF 120V only)

Wall Mounted Box for Surface or Through

Wall Conduit

SPECIFICATIONS

HOUSING: Housings are die cast aluminum in a single-piece cylindrical form of corrosion resistant alloy, 1/8" min. wall thickness. Units are 7.5" in diameter and 12" in height, nominal measurements.

MOUNTING

WALL BRACKET (W): Cast aluminum canopy with integrated aluminum arm secured to housing with (2) 5/16" bolts. Requires mounting to a structural member of the building.

LIGHT CONTROL (TRIM)

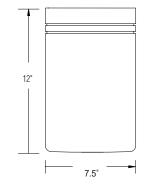
CLEAR DUAL LENS ASSEMBLY (CL): Clear lens trims include a dual lens assembly mounted within a die cast aluminum frame.

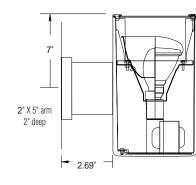
ELECTRICAL: Internal ballast will be provided based on the specified lamp configuration.

LAMPHOLDER: Pulse rated medium base lampholders are glazed porcelain with nickel-plated screw shell.

FINISH: Each luminaire receives a fade and abrasion resistant, electrostatically applied, thermally cured, textured TGIC polyester powder coat finish.

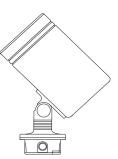
LABELS: All fixtures bear UL or CSA (or CUL) (where applicable) Wet Location labels.





SPECIFICATIONS

GENERAL DESCRIPTION: The Gardco 300 LINE is a series of compact, high performance cylinder luminaires in a variety of styles and mounting configurations. The Enclosed Universal style uses high intensity discharge, or incandescent lamps and is suitable for areas with direct rainfall. Housings are die cast aluminum with twin architectural reveals located near the luminaire apertures. A clear lens assembly is offered with a knuckle mounted configuration. Luminaires are finished with a fade and abrasion resistant polyester powdercoat offered in five standard colors.



ORDERING

example	PREFIX 300	MODEL E	MOUNTING K	TRIMS CL		AMP OHPS	VOLTAGE ² — 120 ——	FINISH BRP	OPTIONS F
	300	E Enclosed Universal	K Knuckle	CL Clear Lens	50MH 70MH 100MH 50HPS 70HPS 100HPS	PAR38 P70MH P100MH P70HPS R40 R70MH R100MH Incandescent 250PAR38 300R40	120 277	BRP BLP WP NP BGP VP OC SC	F

NOTES:

1. Luminaires cannot be field modified to change optics or lamp types.

2. Consult factory for other voltages.

MH Metal Halide HPS High Pressure Sodium

FINISH OPTIONS Bronze Paint

BLP Black Paint Natural Aluminum Paint

White Paint Beige Paint Verde Green Paint

> Optional Color Paint Specify RAL designation as shown in Color Selection Guide. ex OC-RAI 7024

Special Color Paint (Must supply color chip)

Fusing (HID only)

HOUSING: Housings are die cast aluminum in a single-piece cylindrical form of corrosion resistant alloy, 1/8" min. wall thickness. Units are 7.5" in diameter and 12" in height, nominal measurements.

MOUNTING

KNUCKLE: Four (4) piece cast assembly permits 360° rotation of the unit around the axis normal to the mounting plane. An integral cast knuckle with aiming teeth, graduated for 5° increments, permits 90° rotation around the access parallel to the mounting plane. The unit is firmly secured in position by a center lock screw within the axis of the knuckle.

CAST J-BOX: Cast box is provided for knuckle mounting, which is suitable for surface mounting on walls, ceilings or floors. The J-box may also be recessed and used in concrete pour applications.

LIGHT CONTROL (TRIM)

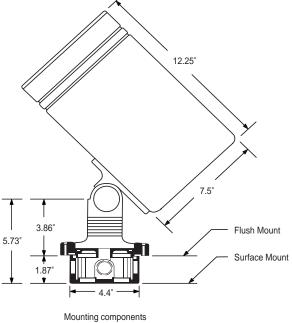
CLEAR DUAL LENS (CL): Clear dual lens trims include two clear tempered glass lenses mounted to a die cast aluminum frame.

ELECTRICAL: Internal ballast will be provided based on the specified lenses configuration.

LAMPHOLDER: Pulse-rated medium base lampholders are glazed porcelain with nickel-plated screw shell.

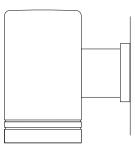
FINISH: Each luminaire receives a fade and abrasion resistant, electro-statically applied, thermally cured, textured TGIC polyester powdercoat finish.

LABELS: All fixtures bear UL or CSA (or CUL) (where applicable) Wet Location labels.



shown in cross section

GENERAL DESCRIPTION: The Gardco 300 LINE is a series of compact, high performance cylinder luminaires in a variety of styles and mounting configurations. Forward Throw units are suitable for direct rainfall and are rain-tight, dust-tight and corrosion resistant. Housings are die cast aluminum with twin architectural reveals located near the luminaire aperture. A choice of two (2) models and three (3) mounting options is available. Luminaires are finished with a fade and abrasion resistant polyester powder coat offered in five standard colors.



ORDFRING

example	PREFIX	MODEL	MOUNTING W	TRIMS	LAMP T70MH	VOLTAGE 3	FINISH BRP	OPTIONS
ехаг	300	U	VV	FT/C	I / UIVITI	120	BKP —	
	300	U Enclosed Upright	W Wall	FT/C Lens, Clear dual assembly with forward throw reflector	T6 Lamp 120 T70MH 277 Supplied with the Lamp	BRP BLP WP NP	F PCB WS	
		D Enclosed Downlight	C Ceiling P Pendant W Wall	FT/D Lens, Clear flat with forward throw reflector			BGP VP OC SC	

NOTES:

- 1. Standard pendant length is 18". Stated length is the distance from the ceiling to the top of the luminaire and takes into account the mounting hardware. For other stem lengths, add desired length in inches after "P." ex. 300-D-P24-L-50HPS-120-BRP (for 24").
- Luminaires cannot be field modified to change optics or lamp types.
- 3. Consult factory for other voltages.

FINISH

BRP Bronze Paint Black Paint

Natural Aluminum Paint White Paint Beige Paint Verde Green Paint

Optional Color Paint Specify RAL designation as shown in Color Selection Guide. ex. OC-RAL7024

Special Color Paint (Must supply color chip)

OPTIONS

Button Type Photocontrol (Wall Mount only)

Wall Mounted Box for Surface or Through

Wall Conduit

SPECIFICATIONS

HOUSING: Housings are die cast aluminum in a single-piece cylindrical form of corrosion resistant alloy, 1/8" min. wall thickness. Units are 7.5" in diameter and 12" in height, nominal measurements.

MOUNTING

CEILING (C): Provides for direct ceiling mount as shown.

PENDANT ASSEMBLY (P): Swivel pendant assembly with locking set screws. Standard pendant length is 18". Stated length is the distance from the ceiling to the top of the luminaire and takes into account the mounting hardware. For other stem lengths add desired length in inches after "P". Can accommodate 35° sloped ceiling maximum.

WALL BRACKET (W): Cast aluminum canopy with integrated aluminum arm secured to housing with (2) 5/16" bolts. Requires mounting to a structural member of the building.

LIGHT CONTROL (TRIM)

FORWARD THROW REFLECTOR (FT/C AND FT/D): Reflectors are composed of specular extruded and faceted Alzak® components, electro-polished, anodized and sealed. FT/D downlights feature a clear

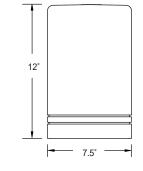
flat glass lens mounted within a die cast aluminum frame. FT/C uplight units feature dual clear glass lenses mounted within a die cast aluminum frame. Reflector provides asymmetric forward throw distribution of light.

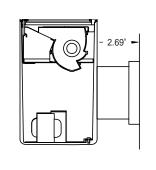
ELECTRICAL: An internal core and coil ballast designed for the 70W Metal Halide M139 lamp is provided.

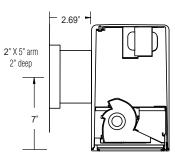
LAMPHOLDER: Pulse rated G12 lampholder provided.

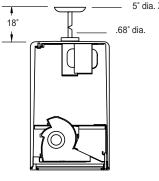
FINISH: Each luminaire receives a fade and abrasion resistant, electrostatically applied, thermally cured, textured TGIC polyester powdercoat finish.

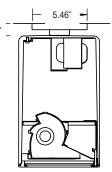
LABELS: All fixtures bear UL or CSA (or CUL) (where applicable) Wet Location labels.



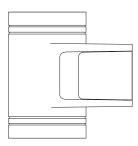








GENERAL DESCRIPTION: The Gardco 301 LINE is a series of high performance up/down wall mounted cylinders. Each luminaire utilizes a single high intensity discharge lamp and provides illumination above and below. Housings are die cast aluminum with twin architectural reveals at both the lower and upper apertures. Six (6) downlight and two (2) uplight optical systems are available. The unique optional "Spike" downlight and/or uplight distribution creates a dramatic narrow stripe of illumination on the wall or column. Luminaires are finished with a fade and abrasion resistant polyester powdercoat offered in 5 standard colors.



ORDERING

d)	PREFIX	MODEL	MOUNTING	TRIMS	WATTAGE	VOLTAGE	FINISH	OPTIONS
example	301 -	E	W	SB	50HPS	277	BRP	F
æ		_			FOMILI	400		
	301	E Fully Enclosed	W Wall	L	50MH1	120	BRP	F
				LL	70MH	208	BLP	WS
				SD	100MH	240	WP	RCA
				SU	150HPS	277	NP	PCB
				SB	50HPS	347	BGP	
					70HPS		VP	
					100HPS		OC	
					150HPS ²		SC	
			W Wall	FT	T70MH			
					T150MH			
				FT Trims utilize T6 Lamps are supplied				
			O Open Downlight	R	50MH ³			
				В	70MH ³			
					100MH ³			
					150MH ³			
					50HPS			
NOTE	c.				70HPS			
					100HPS			
	N/A with 347V Contact factory for availability of 150HPS w/SD, SU or SB Trims		MH Metal Halide		150HPS			
		e rated E-17 metal halide lamps	HPS High Press	ure Sodium				

TRIMS:

- Obscuring lenses on uplight and downlight. Soft symmetrical distributions.
 Egg crate louvers on downlight. Obscuring lenses on uplight and downlight.
- SD Spike downlight distribution. Obscuring lens on uplight.
 SU Spike uplight distribution. Obscuring lens on downlight.
- SB Spike uplight and downlight distributions.
- FT Forward throw downlight distributions. Soft uplight glow.
- R Reflector produces medium downlight distribution with sharp cutoff to lamp and images. Obscuring lens on uplight.
- B Black baffled downlight. Obscuring lens on uplight.

FINISH

- BRP Bronze Paint BLP Black Paint
- NP Natural Aluminum Paint WP White Paint BGP Beige Paint
- VP Verde Green Paint
 OC Optional Color Paint
 Specify RAL designation as shown in Color Selection Guide.
 ex. OC-RAL7024
- SC Special Color Paint (Must supply color chip)

OPTIONS

- F Fusing (N/A w/ 150W or 347V)
 WS Wall Mounted Box for Surface or Through
- Wall Conduit

 RCA Round Column Mounting Adapter for
- Through Column or Surface Conduit (Minimum column diameter 18")
- PCB Button Type Photocontrol (120 or 277V. Consult factory for other voltages)

HOUSING:

Housings are single-piece die cast aluminum cylindrical forms with integral side wall mounting canopy / ballast chambers. Provided mounting brackets are galvanized steel.

OPTICAL SYSTEMS

LENS (L): The uplight and downlight components both utilize twin (four total per luminaire) spun specular Alzak reflectors which provide the symmetrical distributions. The uplight-obscuring lens is flush mounted and the downlight-obscuring lens is regressed. The lenses soften the distribution and conceal the optical system and internal hardware.

LOUVERS (LL): Die cast aluminum egg crate louvers are installed over the downlight-obscuring lens. All other optical elements are as described in the Lens (L) option.

SPIKE DOWNLIGHT (SD): Inner and outer spun specular Alzak reflectors provide a very narrow spot beam at nadir. Uplight optical system is as described in the Lens (L) option.

SPIKE UPLIGHT (SU): Inner and outer spun specular Alzak reflectors provide a very narrow spot at zenith. Downlight optical system is as described in the Lens (L) option.

SPIKE BOTH UPLIGHT AND DOWNLIGHT (SB): Two sets of inner and outer spun specular Alzak reflectors provide very narrow spot beams at nadir and zenith.

REFLECTOR (R): Spun specular Alzak reflector produces a medium symmetrical downlight distribution with sharp cutoff to lamp and lamp images. Uplight optical system is as described in the Lens (L) option.

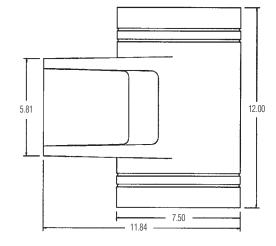
BAFFLE (B): Upper spun specular Alzak reflector and lower black baffle produce a medium symmetrical downlight distribution with exceptional control of high angle brightness. Uplight optical system is as described in the Lens (L) option.

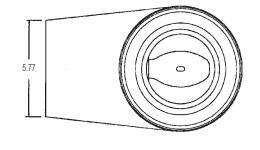
FORWARD THROW (FT): Faceted specular Alzak and specular extruded reflector system produces an asymmetric forward projecting distribution. Secondary optical system with obscuring lens produces a soft uplight glow.

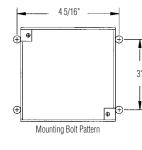
ELECTRICAL: All luminaires utilize magnetic HID ballasts that are high power factor and designed for reliable lamp starting to -20° F. Pulse rated sockets are glazed porcelain with nickel plated screw shells.

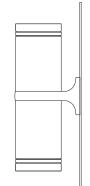
FINISH: Each luminaire receives a fade and abrasion resistant electrostatically applied, thermally cured, (TGIC) polyester powdercoat finish. Standard finishes are textured.

LABELS: All fixtures bear UL and CSA (or CUL) (where applicable) Wet Location labels.









ORDFRING

,	PREFIX	MODEL	MOUNTING	LAMP UP	LAMP DOWN	TRIM DOWN	VOLTAGE ³	FINISH	OPTIONS
nd liby	302	0	- W -	50HPS	50HPS	R	120	BRP	- F
Ď	302	O Open Downlight	W Wall	50MH 70MH T70MH2 100MH 50HPS 70HPS 100HPS R70MH R100MH R70HPS P/R INC	50MH 70MH 100MH 70MH 50HPS 70HPS 100HPS R70MH4 R100MH4 R70HPS P/R INC 26QF 32TRF 42TRF	R Reflector B Baffle (Black) R Reflector B Baffle (Black) B Baffle (Black) B Baffle (Black) B Baffle (Black) R Reflector	120 277	BRP BLP NP WP BGP VP OC SC	F PCB
		E Enclosed Downlight	W Wall	50MH 70MH T70MH ² 100MH 50HPS 70HPS 100HPS R70MH R100MH R70HPS P/R INC	50MH 70MH 100MH 70MH 50HPS 70HPS 100HPS 70HPS R70MH R100MH R70HPS P/R INC	L Obscuring Flat Solite Lens LL Obscuring Flat Solite Lens with Louver			
				26QF 32TRF 42TRF 50MH 70MH T70MH ² 100MH	26QF 32TRF 42TRF T70MH ²	FT/D Flat Clear Lens with Forward Throw Reflecto			

NOTES:

- 1. Lamp Up Trim is always (CL) Clear Lens.
- T70MH Lamp utilizes a FT Forward Throw reflector. Lamp is supplied.
- Consult factory for other voltages.
- 4 Suitable for PAR38 only

LAMPS:

R40 or PAR38 Reflector Lamp

P/R INC 100W max PAR38 or R40 Incandescent Lamp

QF - Quad Tube; TRF - Triple Tube. 4-pin Compact Fluorescent Lamp

Tubular T-6 70MH Lamp (supplied with luminaire)

All others E-17 Clear Lamp FINISH

Bronze Paint BLP Black Paint

Natural Aluminum Paint NΡ WP White Paint

BGP Beige Paint Verde Green Paint Optional Color Paint Specify RAL designation as shown in Color Selection Guide

ex. OC-RAL7024 Special Color Paint (Must supply color chip)

OPTIONS

F Fusing

PCB Button Type Photocontrol

SPECIFICATIONS

HOUSINGS: Housings are cast in a single-piece cylindrical form of corrosion resistant alloy, 1/8" min wall thickness. Units measure 7.5" in outside diameter and 12" in height. Housings are secured to the wall and luminaire assembly using a cast mounting canopy/bracket. The canopy includes a hanger bracket and a mounting bracket (secured over splice box).

LIGHT CONTROL

REFLECTOR (R): Reflectors are composed of spun Alzak® components, electro-polished, anodized and sealed. Reflectors for compact fluorescent lamps feature a dual stage construction.

BAFFLE (B): Step black baffles are die cast aluminum and finished with black TGIC powdercoat.

LENS (L): Lens units consist of a Solite® obscuring glass lens mounted to a die cast aluminum trim support assembly.

LENS WITH LOUVER (LL): Lens with louver units consist of a Solite® obscuring glass lens mounted to a die cast aluminum trim support assembly, including 1 5/8" x 1 5/8" square louvers with a nominal depth of 1".

Note: Clear lens trims include a clear tempered glass lens mounted to a die cast aluminum frame. Supplied standard on all models ("Trim Up"). Twin lens supplied standard with upper glass lens.

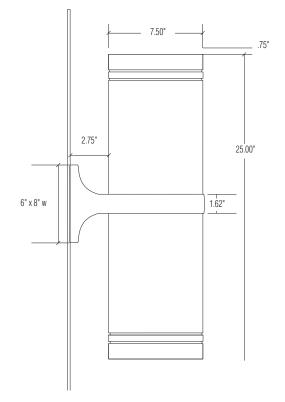
FORWARD THROW REFLECTOR (FT/C AND FT/D): Reflectors are composed of specular extruded and faceted Alzak® components, electro-polished, anodized and sealed. FT/D downlights feature a clear flat glass lens mounted within a die cast aluminum frame. FT/C uplight units feature a dual clear glass lenses mounted within a die cast aluminum frame. Reflector provides asymmetric forward throw distribution of light.

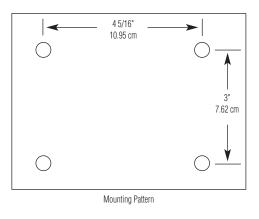
ELECTRICAL: Internal ballast will be provided based on the specified lamp configuration.

LAMPHOLDER: Pulse rated medium base lampholders are glazed porcelain with a nickel-plated screw shell. Fluorescent sockets are high temperature plastic (PBT) with brass alloy contacts.

FINISH: Each standard luminaire receives a fade and abrasion resistant, electrostatically applied, thermally cured, textured TGIC polyester powdercoat finish. Consult factory for special colors. The cast bracket is painted to match the housings.

LABELS: All fixtures bear UL and CSA (or CUL) (where applicable) Wet Location labels.





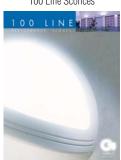
Fascia Plates



140 Line Super Sconce



100 Line Sconces



Step & Aisle Lights





2661 Alvarado Street San Leandro, CA 94577 800/227-0758 510/357-6900 in California Fax: 510/357-3088 www.sitelighting.com

© Gardco Copyright 2003 Genlyte Thomas Group LLC All Rights Reserved. International Copyright Secured. 79103-22/0103