



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8CRDI-TL-P29-8TWU-P29-8TWD-XXX-POE PR-LW-CSU-OW-CSD-WM 4000K_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from UL #13537338.04 & BALLABS #20687.0

[TESTLAB] UL Verification Services Inc.

[ISSUE DATE] 25-FEB-2021

[MANUFAC] WILLIAMS INDOOR

[MORE] H.E. WILLIAMS, INC. - CARTHAGE, MO

[LUMCAT] 8CRDI-TL-P29-8TWU-P29-8TWD-xxx-PoE PR-LW-CSU-OS-CSDWM 4000k

[LUMINAIRE] White formed aluminum housing, wide distribution reflector

[MORE] trims, flush upright frosted lens enclosure, no downlight enclosure

[LAMP] Two white LEDs (one up/one down)

[SEARCH_SOURCETYPE] LED

[SEARCH_APPLICATION] INDOOR, DIRECT, INDIRECT

[SEARCH_MOUNTING] WALL

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4989
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	100
Total Luminaire Watts	50
Ballast Factor	1.00
CIE Type	General Diffuse
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	0.65 ft (Diameter)
Luminous Width (90-270)	0.65 ft (Diameter)
Luminous Height	2.17 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	527	527	527
55	136	136	136
65	20	20	20
75	0	0	0
85	0	0	0

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	2176.153	2176.153	2176.153	2176.153	2176.153
5	2055.111	2055.111	2055.111	2055.111	2055.111
10	2262.054	2262.054	2262.054	2262.054	2262.054
15	2258.149	2258.149	2258.149	2258.149	2258.149
20	2358.367	2358.367	2358.367	2358.367	2358.367
25	2579.626	2579.626	2579.626	2579.626	2579.626
30	2534.073	2534.073	2534.073	2534.073	2534.073
35	786.122	786.122	786.122	786.122	786.122
40	108.027	108.027	108.027	108.027	108.027
45	59.870	59.870	59.870	59.870	59.870
50	35.141	35.141	35.141	35.141	35.141
55	16.920	16.920	16.920	16.920	16.920
60	9.111	9.111	9.111	9.111	9.111
65	2.603	2.603	2.603	2.603	2.603
70	0.000	0.000	0.000	0.000	0.000
75	0.000	0.000	0.000	0.000	0.000
80	0.000	0.000	0.000	0.000	0.000
85	0.000	0.000	0.000	0.000	0.000
90	5.348	5.348	5.348	5.348	5.348
95	14.392	14.392	14.392	14.392	14.392
100	36.338	36.338	36.338	36.338	36.338
105	62.363	62.363	62.363	62.363	62.363
110	95.347	95.347	95.347	95.347	95.347
115	137.884	137.884	137.884	137.884	137.884
120	191.500	191.500	191.500	191.500	191.500
125	257.811	257.811	257.811	257.811	257.811
130	333.588	333.588	333.588	333.588	333.588
135	411.233	411.233	411.233	411.233	411.233
140	498.387	498.387	498.387	498.387	498.387
145	638.903	638.903	638.903	638.903	638.903
150	872.813	872.813	872.813	872.813	872.813
155	1144.931	1144.931	1144.931	1144.931	1144.931
160	1362.710	1362.710	1362.710	1362.710	1362.710
165	1463.321	1463.321	1463.321	1463.321	1463.321
170	1493.886	1493.886	1493.886	1493.886	1493.886
175	1509.169	1509.169	1509.169	1509.169	1509.169
180	1511.812	1511.812	1511.812	1511.812	1511.812

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Zone	Lumens	%Lamp	%Fixt
0-20	853.62	N.A.	17.10
0-30	2018.67	N.A.	40.50
0-40	2656.77	N.A.	53.20
0-60	2724.4	N.A.	54.60
0-80	2727.9	N.A.	54.70
0-90	2729.37	N.A.	54.70
10-90	2524.35	N.A.	50.60
20-40	1803.15	N.A.	36.10
20-50	1853.44	N.A.	37.10
40-70	71.13	N.A.	1.40
60-80	3.51	N.A.	0.10
70-80	0.00	N.A.	0.00
80-90	1.46	N.A.	0.00
90-110	86.82	N.A.	1.70
90-120	225.95	N.A.	4.50
90-130	458.40	N.A.	9.20
90-150	1189.68	N.A.	23.80
90-180	2259.9	N.A.	45.30
110-180	2173.08	N.A.	43.60
0-180	4989.27	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	205.02
10-20	648.60
20-30	1165.05
30-40	638.10
40-50	50.29
50-60	17.34
60-70	3.51
70-80	0.00
80-90	1.46
90-100	19.19
100-110	67.63
110-120	139.13
120-130	232.45
130-140	318.93
140-150	412.36
150-160	518.35
160-170	408.32
170-180	143.54

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	108	108	108	108	100	100	100	100	86	86	86	73	73	73	60	60	60	55
1	101	98	95	92	94	91	89	87	79	77	76	68	67	66	57	57	56	51
2	95	89	84	80	88	83	79	76	73	70	67	63	61	59	54	53	52	48
3	89	81	75	71	83	76	71	67	67	64	61	59	56	54	51	49	48	44
4	83	74	68	63	77	70	65	60	62	58	55	55	52	49	48	46	44	41
5	78	68	62	57	73	64	59	54	58	53	50	51	48	45	45	43	41	38
6	73	63	56	51	68	60	54	49	53	49	46	48	44	42	42	40	38	36
7	68	58	51	47	64	55	49	45	50	45	42	45	41	39	40	37	35	33
8	64	54	47	43	60	51	45	41	46	42	39	42	38	36	38	35	33	31
9	60	50	44	39	57	48	42	38	43	39	36	39	36	33	35	33	31	29
10	57	47	40	36	54	45	39	35	41	36	33	37	33	31	33	31	29	27

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UGR TABLE - CORRECTED

Reflectances

Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size UGR Viewed Crosswise

X=2H	Y=2H	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	3H	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	4H	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	6H	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	8H	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	12H	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6

UGR Viewed Endwise

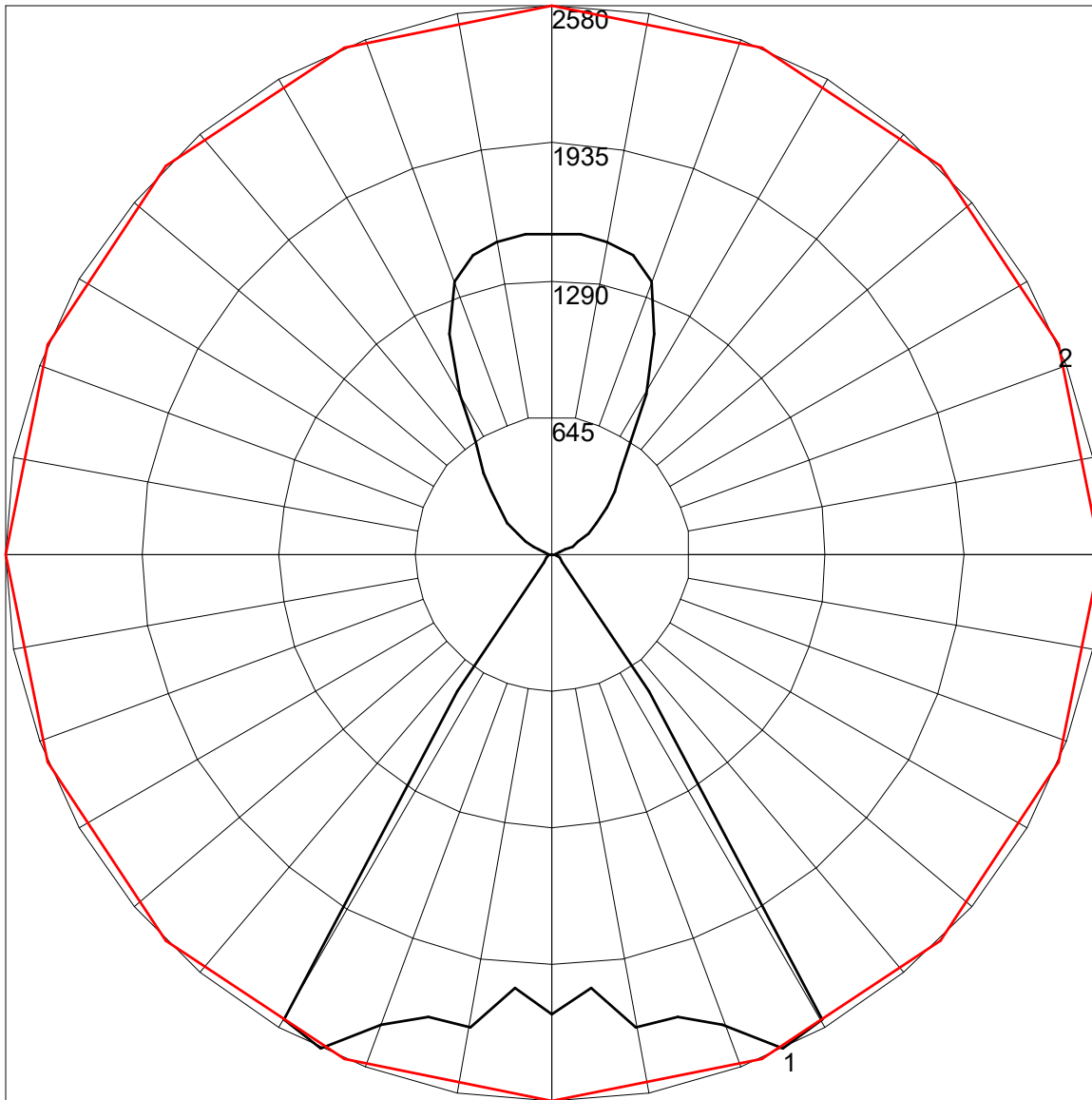
4H	2H	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	3H	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	4H	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	6H	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	8H	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	12H	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
8H	4H	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	6H	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	8H	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	12H	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
12H	4H	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	6H	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	8H	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6

Maximum UGR = 5.6

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POLAR GRAPH



Maximum Candela = 2579.626 Located At Horizontal Angle = 0, Vertical Angle = 25

1 - Vertical Plane Through Horizontal Angles (90 - 270)

2 - Horizontal Cone Through Vertical Angle (25) (Through Max. Cd.)