



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 192_168_37_234-9_29_14-MERGED.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from UL #13537338.04 & #12326812.09

[TESTLAB] UL Verification Services Inc.

[ISSUE DATE] 2-MAR-2021

[MANUFAC] WILLIAMS INDOOR

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

[LUMCAT] 8CRDI-TL-P29-835U-P29-835D-xxx-POE PR-LW-CSU-LM-WHD-WM

[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	5090
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	102
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	1127	1127	1127
55	613	613	613
65	349	349	349
75	170	170	170
85	38	38	38

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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>
0.0	6246.056	6246.056	6246.056	6246.056	6246.056
2.5	6179.823	6179.823	6179.823	6179.823	6179.823
5.0	6001.282	6001.282	6001.282	6001.282	6001.282
7.5	5707.554	5707.554	5707.554	5707.554	5707.554
10.0	5271.280	5271.280	5271.280	5271.280	5271.280
12.5	4675.183	4675.183	4675.183	4675.183	4675.183
15.0	3927.903	3927.903	3927.903	3927.903	3927.903
17.5	3125.908	3125.908	3125.908	3125.908	3125.908
20.0	2358.469	2358.469	2358.469	2358.469	2358.469
22.5	1719.177	1719.177	1719.177	1719.177	1719.177
25.0	1219.550	1219.550	1219.550	1219.550	1219.550
27.5	860.165	860.165	860.165	860.165	860.165
30.0	611.215	611.215	611.215	611.215	611.215
32.5	438.721	438.721	438.721	438.721	438.721
35.0	318.926	318.926	318.926	318.926	318.926
37.5	238.151	238.151	238.151	238.151	238.151
40.0	186.028	186.028	186.028	186.028	186.028
42.5	151.760	151.760	151.760	151.760	151.760
45.0	128.002	128.002	128.002	128.002	128.002
47.5	110.580	110.580	110.580	110.580	110.580
50.0	97.046	97.046	97.046	97.046	97.046
52.5	85.815	85.815	85.815	85.815	85.815
55.0	76.024	76.024	76.024	76.024	76.024
57.5	67.241	67.241	67.241	67.241	67.241
60.0	59.610	59.610	59.610	59.610	59.610
62.5	52.410	52.410	52.410	52.410	52.410
65.0	45.643	45.643	45.643	45.643	45.643
67.5	39.308	39.308	39.308	39.308	39.308
70.0	33.404	33.404	33.404	33.404	33.404
72.5	27.933	27.933	27.933	27.933	27.933
75.0	22.750	22.750	22.750	22.750	22.750
77.5	17.854	17.854	17.854	17.854	17.854
80.0	13.247	13.247	13.247	13.247	13.247
82.5	8.927	8.927	8.927	8.927	8.927
85.0	5.039	5.039	5.039	5.039	5.039
87.5	2.016	2.016	2.016	2.016	2.016
90.0	6.207	6.207	6.207	6.207	6.207
92.5	8.894	8.894	8.894	8.894	8.894
95.0	15.541	15.541	15.541	15.541	15.541
97.5	26.359	26.359	26.359	26.359	26.359
100.0	39.240	39.240	39.240	39.240	39.240
102.5	52.764	52.764	52.764	52.764	52.764
105.0	67.343	67.343	67.343	67.343	67.343
107.5	83.799	83.799	83.799	83.799	83.799
110.0	102.961	102.961	102.961	102.961	102.961
112.5	124.507	124.507	124.507	124.507	124.507
115.0	148.895	148.895	148.895	148.895	148.895
117.5	176.218	176.218	176.218	176.218	176.218
120.0	206.793	206.793	206.793	206.793	206.793
122.5	240.809	240.809	240.809	240.809	240.809
125.0	278.399	278.399	278.399	278.399	278.399
127.5	318.511	318.511	318.511	318.511	318.511
130.0	360.227	360.227	360.227	360.227	360.227
132.5	402.173	402.173	402.173	402.173	402.173

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135.0	444.073	444.073	444.073	444.073	444.073
137.5	487.761	487.761	487.761	487.761	487.761
140.0	538.187	538.187	538.187	538.187	538.187
142.5	602.824	602.824	602.824	602.824	602.824
145.0	689.924	689.924	689.924	689.924	689.924
147.5	802.696	802.696	802.696	802.696	802.696
150.0	942.515	942.515	942.515	942.515	942.515
152.5	1088.293	1088.293	1088.293	1088.293	1088.293
155.0	1236.363	1236.363	1236.363	1236.363	1236.363
157.5	1368.388	1368.388	1368.388	1368.388	1368.388
160.0	1471.533	1471.533	1471.533	1471.533	1471.533
162.5	1540.755	1540.755	1540.755	1540.755	1540.755
165.0	1580.179	1580.179	1580.179	1580.179	1580.179
167.5	1601.266	1601.266	1601.266	1601.266	1601.266
170.0	1613.185	1613.185	1613.185	1613.185	1613.185
172.5	1621.895	1621.895	1621.895	1621.895	1621.895
175.0	1629.689	1629.689	1629.689	1629.689	1629.689
177.5	1633.356	1633.356	1633.356	1633.356	1633.356
180.0	1632.542	1632.542	1632.542	1632.542	1632.542

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1608.43	N.A.	31.60
0-30	2196.31	N.A.	43.10
0-40	2410.21	N.A.	47.40
0-60	2580.9	N.A.	50.70
0-80	2650.58	N.A.	52.10
0-90	2657.58	N.A.	52.20
10-90	2107.58	N.A.	41.40
20-40	801.78	N.A.	15.80
20-50	903.84	N.A.	17.80
40-70	216.15	N.A.	4.20
60-80	69.68	N.A.	1.40
70-80	24.22	N.A.	0.50
80-90	7.00	N.A.	0.10
90-110	92.50	N.A.	1.80
90-120	241.85	N.A.	4.80
90-130	492.01	N.A.	9.70
90-150	1275.83	N.A.	25.10
90-180	2432.54	N.A.	47.80
110-180	2340.04	N.A.	46.00
0-180	5090.11	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	549.99
10-20	1058.44
20-30	587.88
30-40	213.89
40-50	102.06
50-60	68.63
60-70	45.46
70-80	24.22
80-90	7.00
90-100	20.01
100-110	72.49
110-120	149.35
120-130	250.16
130-140	343.40
140-150	440.43
150-160	559.69
160-170	442.03
170-180	154.99

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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	85	85	85	71	71	71	58	58	58	52
1	101	98	95	92	93	91	88	86	78	76	75	66	65	64	55	55	54	49
2	94	89	84	80	88	83	79	76	72	69	67	62	60	58	53	51	50	46
3	89	81	76	71	82	76	72	68	67	64	61	58	56	54	50	49	47	44
4	83	75	69	64	78	71	65	61	62	59	56	55	52	50	48	46	45	41
5	78	70	63	59	73	66	60	56	59	54	51	52	49	47	46	44	42	39
6	74	65	58	54	69	61	56	52	55	51	48	49	46	44	44	42	40	37
7	70	61	54	50	66	58	52	48	52	48	45	47	44	41	42	40	38	36
8	67	57	51	47	63	54	49	45	49	45	42	45	41	39	40	38	36	34
9	63	54	48	44	60	51	46	42	47	43	40	43	39	37	39	36	35	33
10	60	51	45	41	57	49	43	40	45	40	38	41	38	35	37	35	33	32

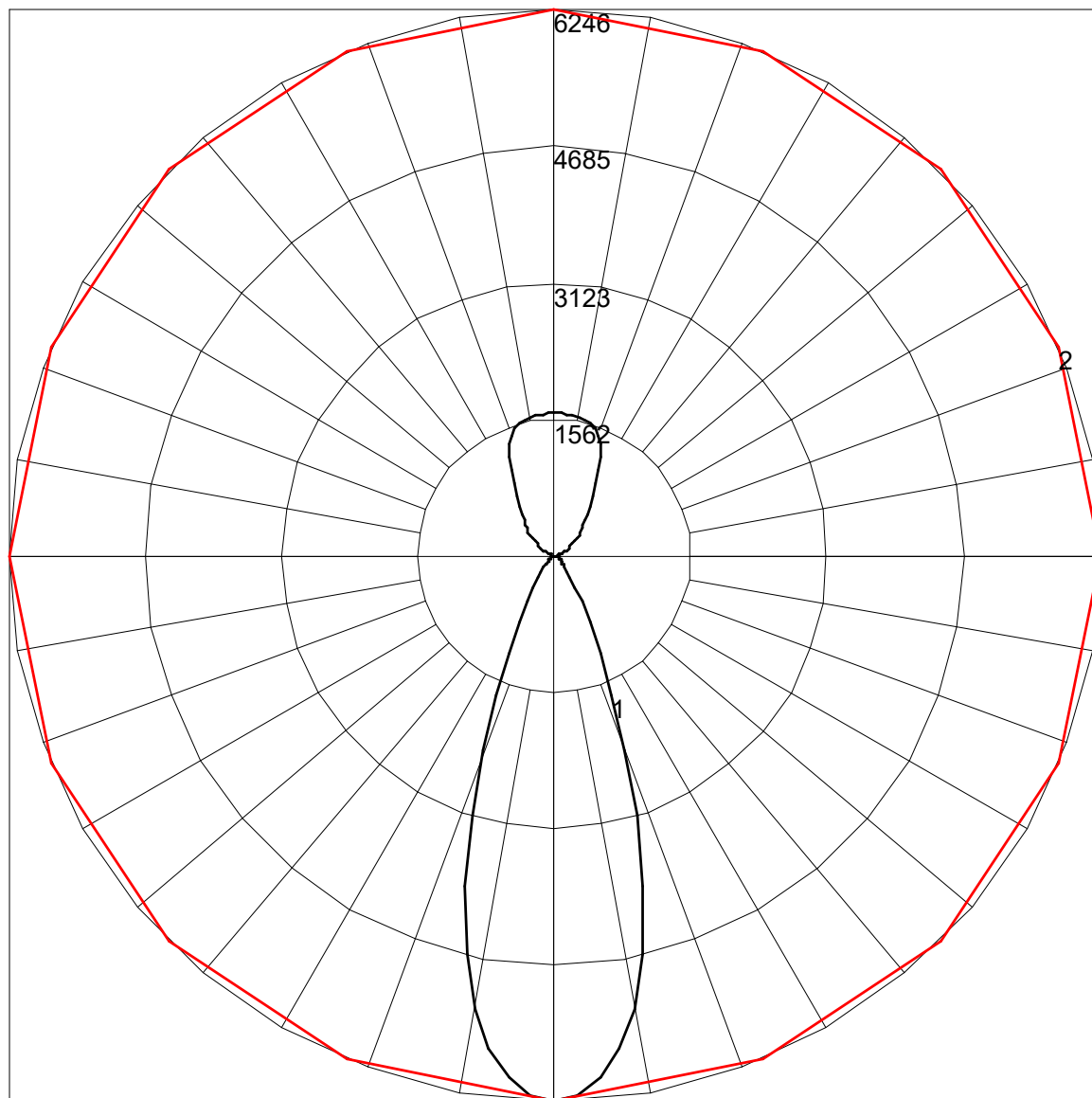
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UGR TABLE - CORRECTED

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					UGR Viewed Endwise				
X=2H	Y=2H	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
	3H	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
	4H	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
	6H	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
	8H	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
	12H	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
4H	2H	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
	3H	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
	4H	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
	6H	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
	8H	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
	12H	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
8H	4H	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
	6H	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
	8H	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
	12H	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
12H	4H	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
	6H	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
	8H	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7

Maximum UGR = 5.7

POLAR GRAPH



Maximum Candela = 6246.056 Located At Horizontal Angle = 0, Vertical Angle = 0

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

2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)