



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 192_168_37_234-10_7_17-MERGED.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN from UL #13537338.04
 [TESTLAB] UL Verification Services Inc.
 [ISSUEDATE] 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-RM-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	5018
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	965	965	965
55	482	482	482
65	250	250	250
75	104	104	104
85	29	29	29

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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	6227.467	6227.467	6227.467	6227.467	6227.467
2.5	6156.717	6156.717	6156.717	6156.717	6156.717
5.0	5964.681	5964.681	5964.681	5964.681	5964.681
7.5	5657.134	5657.134	5657.134	5657.134	5657.134
10.0	5208.086	5208.086	5208.086	5208.086	5208.086
12.5	4600.211	4600.211	4600.211	4600.211	4600.211
15.0	3853.724	3853.724	3853.724	3853.724	3853.724
17.5	3061.032	3061.032	3061.032	3061.032	3061.032
20.0	2317.432	2317.432	2317.432	2317.432	2317.432
22.5	1698.006	1698.006	1698.006	1698.006	1698.006
25.0	1222.103	1222.103	1222.103	1222.103	1222.103
27.5	876.581	876.581	876.581	876.581	876.581
30.0	629.822	629.822	629.822	629.822	629.822
32.5	452.369	452.369	452.369	452.369	452.369
35.0	324.152	324.152	324.152	324.152	324.152
37.5	234.198	234.198	234.198	234.198	234.198
40.0	174.132	174.132	174.132	174.132	174.132
42.5	135.436	135.436	135.436	135.436	135.436
45.0	109.591	109.591	109.591	109.591	109.591
47.5	91.687	91.687	91.687	91.687	91.687
50.0	78.547	78.547	78.547	78.547	78.547
52.5	68.296	68.296	68.296	68.296	68.296
55.0	59.777	59.777	59.777	59.777	59.777
57.5	52.269	52.269	52.269	52.269	52.269
60.0	45.338	45.338	45.338	45.338	45.338
62.5	38.840	38.840	38.840	38.840	38.840
65.0	32.776	32.776	32.776	32.776	32.776
67.5	27.145	27.145	27.145	27.145	27.145
70.0	21.947	21.947	21.947	21.947	21.947
72.5	17.327	17.327	17.327	17.327	17.327
75.0	13.861	13.861	13.861	13.861	13.861
77.5	10.974	10.974	10.974	10.974	10.974
80.0	8.519	8.519	8.519	8.519	8.519
82.5	6.209	6.209	6.209	6.209	6.209
85.0	3.898	3.898	3.898	3.898	3.898
87.5	1.877	1.877	1.877	1.877	1.877
90.0	6.353	6.353	6.353	6.353	6.353
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	1585.55	N.A.	31.60
0-30	2172.77	N.A.	43.30
0-40	2389.14	N.A.	47.60
0-60	2531.88	N.A.	50.50
0-80	2579.71	N.A.	51.40
0-90	2585.00	N.A.	51.50
10-90	2039.34	N.A.	40.60
20-40	803.59	N.A.	16.00
20-50	892.26	N.A.	17.80
40-70	175.44	N.A.	3.50
60-80	47.84	N.A.	1.00
70-80	15.13	N.A.	0.30
80-90	5.29	N.A.	0.10
90-110	92.52	N.A.	1.80
90-120	241.87	N.A.	4.80
90-130	492.03	N.A.	9.80
90-150	1275.85	N.A.	25.40
90-180	2432.56	N.A.	48.50
110-180	2340.04	N.A.	46.60
0-180	5017.56	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	545.67
10-20	1039.88
20-30	587.22
30-40	216.37
40-50	88.67
50-60	54.06
60-70	32.71
70-80	15.13
80-90	5.29
90-100	20.03
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	107	107	107	107	99	99	99	99	84	84	84	70	70	70	58	58	58	52
1	101	97	95	92	93	91	88	86	78	76	74	66	65	64	55	54	54	49
2	94	89	84	80	88	83	79	76	72	69	67	62	60	58	52	51	50	46
3	89	81	76	72	82	76	72	68	67	63	61	58	56	54	50	48	47	43
4	83	75	69	65	78	71	66	62	62	59	56	55	52	50	48	46	44	41
5	79	70	63	59	73	66	60	56	59	55	51	52	49	47	45	44	42	39
6	74	65	59	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	38	36	35	33
10	60	51	45	41	57	49	44	40	45	41	38	41	38	36	37	35	33	32

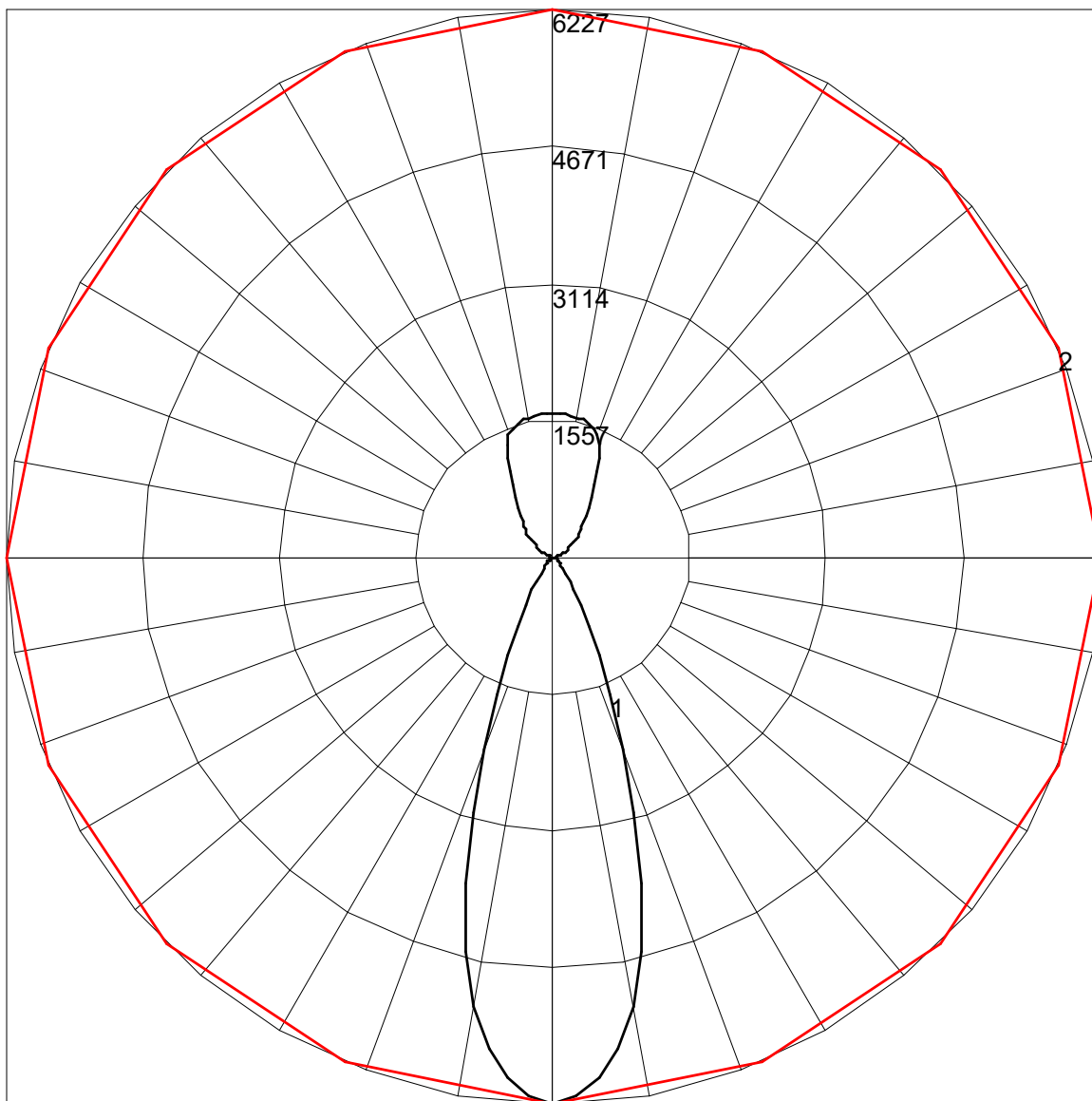
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UGR TABLE - CORRECTED

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	5.6	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	5.6
	4H	5.6	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	5.6
	8H	5.6	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	5.6
4H	2H	5.6	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	5.6
	4H	5.6	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	5.6
	8H	5.6	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	5.6
8H	4H	5.6	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	5.6
	8H	5.6	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	5.6
12H	4H	5.6	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	5.6
	8H	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6

Maximum UGR = 5.6

POLAR GRAPH



Maximum Candela = 6227.467 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.)