



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 192_168_37_234-10_15_52-MERGED.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from UL #13537338.04 & #12326812.15

[TESTLAB] UL Verification Services Inc.

[ISSUE DATE] 3-MAR-2021

[MANUFAC] WILLIAMS INDOOR

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

[LUMCAT] 8CRDI-TL-P29-835U-P29-835D-xxx-POE PR-LW-CSU-RN-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	5044
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	101
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	886	886	886
55	430	430	430
65	204	204	204
75	79	79	79
85	22	22	22

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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	9629.300	9629.300	9629.300	9629.300	9629.300
2.5	9394.613	9394.613	9394.613	9394.613	9394.613
5.0	8729.192	8729.192	8729.192	8729.192	8729.192
7.5	7716.033	7716.033	7716.033	7716.033	7716.033
10.0	6452.447	6452.447	6452.447	6452.447	6452.447
12.5	5094.413	5094.413	5094.413	5094.413	5094.413
15.0	3809.362	3809.362	3809.362	3809.362	3809.362
17.5	2747.549	2747.549	2747.549	2747.549	2747.549
20.0	1943.318	1943.318	1943.318	1943.318	1943.318
22.5	1354.599	1354.599	1354.599	1354.599	1354.599
25.0	935.598	935.598	935.598	935.598	935.598
27.5	647.820	647.820	647.820	647.820	647.820
30.0	456.923	456.923	456.923	456.923	456.923
32.5	330.994	330.994	330.994	330.994	330.994
35.0	246.421	246.421	246.421	246.421	246.421
37.5	188.608	188.608	188.608	188.608	188.608
40.0	148.969	148.969	148.969	148.969	148.969
42.5	121.064	121.064	121.064	121.064	121.064
45.0	100.600	100.600	100.600	100.600	100.600
47.5	84.716	84.716	84.716	84.716	84.716
50.0	72.123	72.123	72.123	72.123	72.123
52.5	61.820	61.820	61.820	61.820	61.820
55.0	53.377	53.377	53.377	53.377	53.377
57.5	45.936	45.936	45.936	45.936	45.936
60.0	39.210	39.210	39.210	39.210	39.210
62.5	32.770	32.770	32.770	32.770	32.770
65.0	26.760	26.760	26.760	26.760	26.760
67.5	21.608	21.608	21.608	21.608	21.608
70.0	17.172	17.172	17.172	17.172	17.172
72.5	13.452	13.452	13.452	13.452	13.452
75.0	10.590	10.590	10.590	10.590	10.590
77.5	8.300	8.300	8.300	8.300	8.300
80.0	6.440	6.440	6.440	6.440	6.440
82.5	4.579	4.579	4.579	4.579	4.579
85.0	2.862	2.862	2.862	2.862	2.862
87.5	1.431	1.431	1.431	1.431	1.431
90.0	6.205	6.205	6.205	6.205	6.205
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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CANDELA TABULATION - (Cont.)

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	1817.19	N.A.	36.00
0-30	2276.28	N.A.	45.10
0-40	2440.49	N.A.	48.40
0-60	2568.77	N.A.	50.90
0-80	2607.39	N.A.	51.70
0-90	2611.53	N.A.	51.80
10-90	1851.35	N.A.	36.70
20-40	623.30	N.A.	12.40
20-50	703.23	N.A.	13.90
40-70	155.26	N.A.	3.10
60-80	38.63	N.A.	0.80
70-80	11.64	N.A.	0.20
80-90	4.14	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.	9.80
90-150	1275.83	N.A.	25.30
90-180	2432.54	N.A.	48.20
110-180	2340.04	N.A.	46.40
0-180	5044.07	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	760.18
10-20	1057.01
20-30	459.09
30-40	164.22
40-50	79.93
50-60	48.35
60-70	26.99
70-80	11.64
80-90	4.14
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	99	99	99	99	84	84	84	70	70	70	58	58	58	52
1	101	98	95	92	94	91	89	86	78	76	75	66	65	64	55	55	54	49
2	95	89	85	81	88	84	80	77	73	70	68	62	61	59	53	52	51	47
3	89	82	77	73	83	77	73	69	68	65	62	59	57	55	51	50	48	45
4	84	76	71	66	79	72	67	63	64	60	57	56	54	52	49	47	46	43
5	80	71	65	61	75	67	62	58	60	56	53	53	51	49	47	45	44	41
6	76	67	61	56	71	63	58	54	57	53	50	51	48	46	45	43	42	40
7	72	63	57	52	68	60	54	51	54	50	47	49	46	44	44	42	40	38
8	68	59	53	49	64	56	51	48	51	47	45	47	44	42	42	40	39	37
9	65	56	50	46	62	54	49	45	49	45	43	45	42	40	41	39	37	36
10	62	53	48	44	59	51	46	43	47	43	41	43	40	38	40	38	36	35

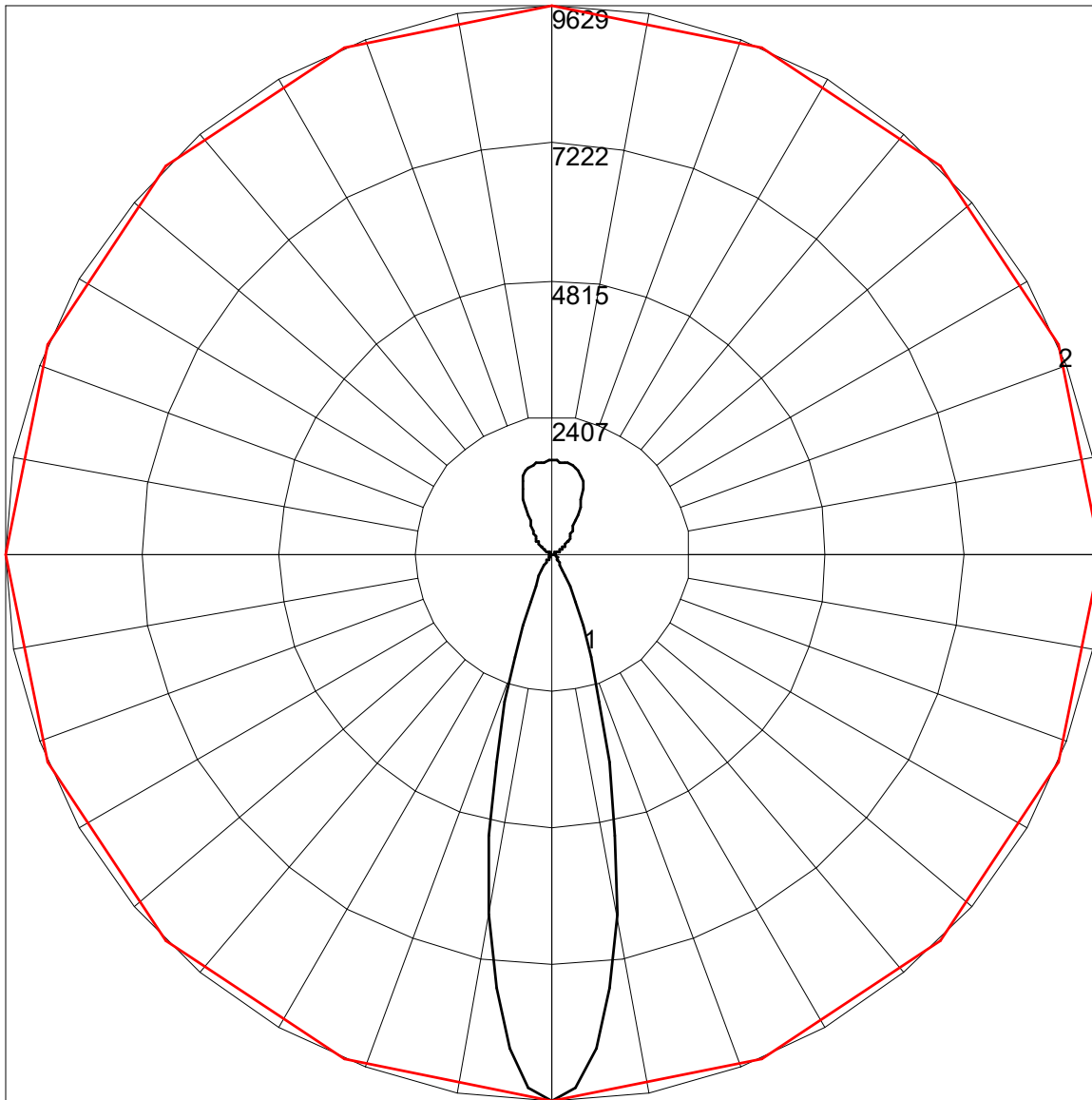
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UGR TABLE - CORRECTED

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 = 9629.3 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.)