



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 192_168_37_234-9_40_24-MERGED.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from UL #13537338.04 & #12326812.10

[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-LN-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	5112
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	954	954	954
55	518	518	518
65	295	295	295
75	144	144	144
85	32	32	32

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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	9952.659	9952.659	9952.659	9952.659	9952.659
2.5	9706.270	9706.270	9706.270	9706.270	9706.270
5.0	9007.685	9007.685	9007.685	9007.685	9007.685
7.5	7945.315	7945.315	7945.315	7945.315	7945.315
10.0	6624.961	6624.961	6624.961	6624.961	6624.961
12.5	5207.500	5207.500	5207.500	5207.500	5207.500
15.0	3868.304	3868.304	3868.304	3868.304	3868.304
17.5	2769.700	2769.700	2769.700	2769.700	2769.700
20.0	1947.921	1947.921	1947.921	1947.921	1947.921
22.5	1346.008	1346.008	1346.008	1346.008	1346.008
25.0	919.465	919.465	919.465	919.465	919.465
27.5	629.886	629.886	629.886	629.886	629.886
30.0	440.891	440.891	440.891	440.891	440.891
32.5	318.566	318.566	318.566	318.566	318.566
35.0	238.562	238.562	238.562	238.562	238.562
37.5	185.951	185.951	185.951	185.951	185.951
40.0	150.732	150.732	150.732	150.732	150.732
42.5	126.383	126.383	126.383	126.383	126.383
45.0	108.411	108.411	108.411	108.411	108.411
47.5	94.352	94.352	94.352	94.352	94.352
50.0	82.613	82.613	82.613	82.613	82.613
52.5	72.757	72.757	72.757	72.757	72.757
55.0	64.351	64.351	64.351	64.351	64.351
57.5	56.959	56.959	56.959	56.959	56.959
60.0	50.292	50.292	50.292	50.292	50.292
62.5	44.205	44.205	44.205	44.205	44.205
65.0	38.553	38.553	38.553	38.553	38.553
67.5	33.190	33.190	33.190	33.190	33.190
70.0	28.117	28.117	28.117	28.117	28.117
72.5	23.479	23.479	23.479	23.479	23.479
75.0	19.276	19.276	19.276	19.276	19.276
77.5	15.073	15.073	15.073	15.073	15.073
80.0	11.305	11.305	11.305	11.305	11.305
82.5	7.682	7.682	7.682	7.682	7.682
85.0	4.203	4.203	4.203	4.203	4.203
87.5	1.594	1.594	1.594	1.594	1.594
90.0	6.065	6.065	6.065	6.065	6.065
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	1857.86	N.A.	36.30
0-30	2311.08	N.A.	45.20
0-40	2470.8	N.A.	48.30
0-60	2614.57	N.A.	51.10
0-80	2673.38	N.A.	52.30
0-90	2679.41	N.A.	52.40
10-90	1896.08	N.A.	37.10
20-40	612.94	N.A.	12.00
20-50	698.55	N.A.	13.70
40-70	182.13	N.A.	3.60
60-80	58.80	N.A.	1.20
70-80	20.44	N.A.	0.40
80-90	6.03	N.A.	0.10
90-110	92.48	N.A.	1.80
90-120	241.83	N.A.	4.70
90-130	491.99	N.A.	9.60
90-150	1275.81	N.A.	25.00
90-180	2432.52	N.A.	47.60
110-180	2340.04	N.A.	45.80
0-180	5111.93	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	783.33
10-20	1074.54
20-30	453.22
30-40	159.72
40-50	85.61
50-60	58.16
60-70	38.36
70-80	20.44
80-90	6.03
90-100	19.99
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	94	91	89	87	78	77	75	67	66	65	56	55	55	50
2	95	90	85	81	88	84	80	77	73	70	68	63	61	60	53	52	51	47
3	89	82	77	73	83	77	73	69	68	65	62	59	57	55	51	50	49	45
4	84	76	71	66	79	72	67	63	64	60	57	56	54	52	49	48	46	43
5	80	71	65	61	75	67	62	58	60	56	53	54	51	49	47	46	44	41
6	76	67	61	56	71	63	58	54	57	53	50	51	48	46	46	44	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	65	57	51	48	52	48	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	38	36
10	63	53	48	44	59	51	46	43	47	43	41	43	41	38	40	38	36	35

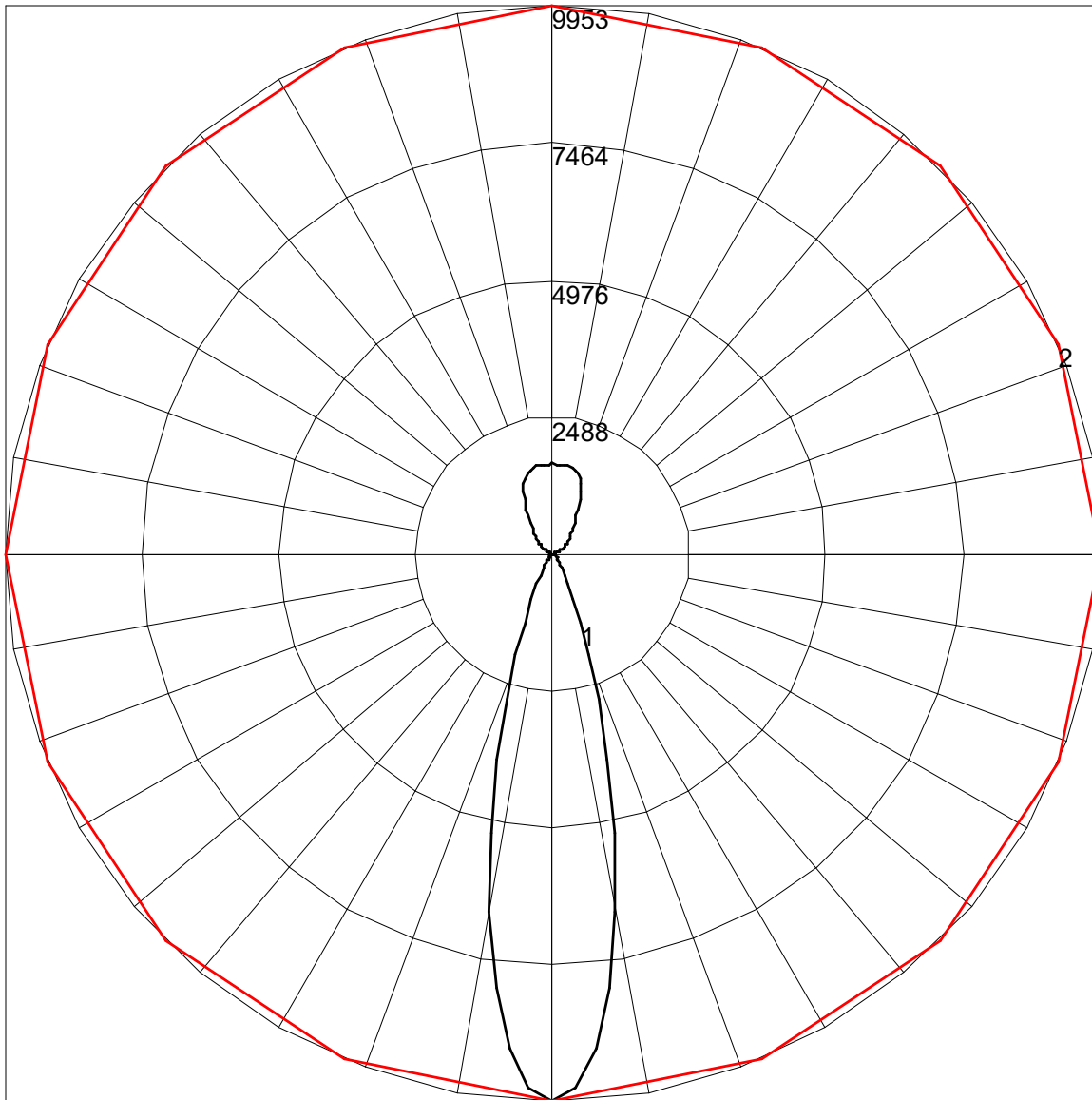
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UGR TABLE - CORRECTED

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 = 9952.659 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.)