



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75-8-L170-835-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN from BALLABS TEST NO. 17875.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUE DATE] 11-NOV-2019
 [MANUFAC] H.E. WILLIAMS, INC - CARTHAGE, MO
 [LUMINAIRE] 8' STRIP w/WHITE REFLECTOR
 [LUMCAT] 75-8-L170-835-DIM-UNV

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	17268
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	145
Total Luminaire Watts	119.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.32
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.42
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	7.62 ft
Luminous Width (90-270)	0.22 ft
Luminous Height	0.01 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	37260	35633	35136
55	36334	34360	33637
65	33883	31200	30202
75	28601	25251	24173
85	15085	14311	11756

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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	5862.756	5862.756	5862.756	5862.756	5862.756
5	5905.594	5868.875	5844.396	5828.077	5821.957
10	5840.316	5803.598	5775.039	5758.719	5750.560
15	5742.400	5695.482	5666.923	5642.443	5650.603
20	5587.365	5548.607	5515.968	5491.489	5505.768
25	5391.532	5358.893	5311.975	5291.576	5283.416
30	5171.220	5124.301	5071.263	5054.944	5012.105
35	4889.710	4850.951	4789.753	4777.514	4732.635
40	4563.321	4481.724	4449.085	4426.646	4414.406
45	4181.854	4081.898	4061.498	4043.139	4028.860
50	3759.589	3667.792	3651.473	3643.313	3596.395
55	3308.765	3212.888	3198.609	3198.609	3157.810
60	2819.182	2733.505	2692.706	2711.066	2649.868
65	2274.521	2211.283	2164.365	2203.123	2121.526
70	1723.740	1644.183	1619.704	1660.502	1597.264
75	1177.039	1099.522	1099.522	1099.522	1075.043
80	626.258	614.019	614.019	603.819	579.340
85	210.113	220.312	234.592	224.392	203.993
90	18.359	18.359	28.559	18.359	18.359
95	0.000	0.000	0.000	0.000	0.000
100	0.000	0.000	0.000	0.000	0.000
105	0.000	0.000	0.000	0.000	0.000
110	0.000	0.000	0.000	0.000	0.000
115	0.000	0.000	0.000	0.000	0.000
120	0.000	0.000	0.000	0.000	0.000
125	0.000	0.000	0.000	0.000	0.000
130	0.000	0.000	0.000	0.000	0.000
135	0.000	0.000	0.000	0.000	0.000
140	0.000	0.000	0.000	0.000	0.000
145	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000
155	0.000	0.000	0.000	0.000	0.000
160	0.000	0.000	0.000	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000
170	0.000	0.000	0.000	0.000	0.000
175	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2159.07	N.A.	12.50
0-30	4614.56	N.A.	26.70
0-40	7617.81	N.A.	44.10
0-60	13625.05	N.A.	78.90
0-80	16969.88	N.A.	98.30
0-90	17261.88	N.A.	100.00
10-90	16705.64	N.A.	96.70
20-40	5458.74	N.A.	31.60
20-50	8601.57	N.A.	49.80
40-70	8173.81	N.A.	47.30
60-80	3344.84	N.A.	19.40
70-80	1178.26	N.A.	6.80
80-90	292.00	N.A.	1.70
90-110	5.73	N.A.	0.00
90-120	5.73	N.A.	0.00
90-130	5.73	N.A.	0.00
90-150	5.73	N.A.	0.00
90-180	5.73	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	17267.61	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	556.24
10-20	1602.83
20-30	2455.49
30-40	3003.25
40-50	3142.83
50-60	2864.41
60-70	2166.57
70-80	1178.26
80-90	292.00
90-100	5.73
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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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	123	123	123	123	120	120	120	120	114	114	114	110	110	110	105	105	105	103
1	112	107	103	99	109	105	101	97	100	97	94	96	94	91	93	90	88	86
2	102	93	86	80	99	91	85	79	88	82	77	84	80	76	81	77	74	72
3	93	82	73	66	90	80	72	66	77	70	65	74	68	64	71	67	62	60
4	85	72	63	56	82	71	62	56	68	61	55	66	59	54	64	58	53	51
5	78	64	55	48	76	63	54	48	61	53	47	59	52	47	57	51	46	44
6	72	58	49	42	70	57	48	42	55	47	41	53	46	41	52	45	41	38
7	67	52	43	37	65	52	43	37	50	42	37	49	42	36	47	41	36	34
8	62	48	39	33	60	47	39	33	46	38	33	44	37	32	43	37	32	30
9	58	44	35	30	56	43	35	29	42	35	29	41	34	29	40	34	29	27
10	54	40	32	27	53	40	32	27	39	32	27	38	31	26	37	31	26	25

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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	24.5	26.2	24.9	26.5	26.8	UGR Viewed Endwise			
	3H	26.3	27.8	26.7	28.2	28.5	24.4	26.1	24.8	26.4
	4H	27.0	28.4	27.4	28.7	29.1	26.2	27.7	26.6	28.0
	6H	27.4	28.7	27.8	29.1	29.4	26.8	28.2	27.2	28.5
	8H	27.5	28.7	27.9	29.1	29.5	27.2	28.5	27.6	28.8
	12H	27.6	28.8	28.0	29.1	29.6	27.3	28.5	27.7	28.9

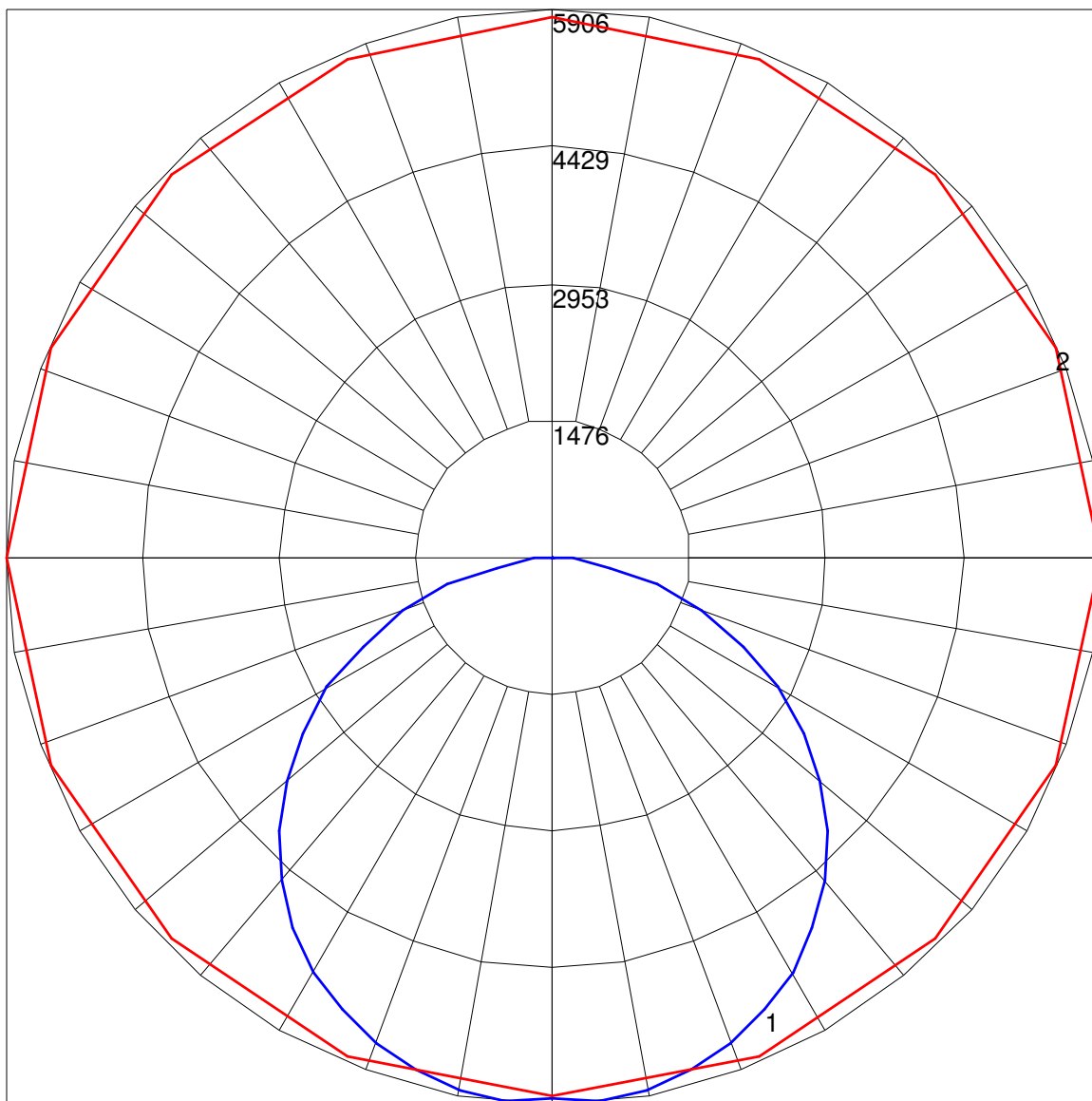
4H	2H	25.1	26.5	25.5	26.9	27.3	25.0	26.5	25.4	26.8
	3H	27.1	28.3	27.5	28.7	29.1	27.0	28.2	27.4	28.6
	4H	27.9	28.9	28.3	29.3	29.8	27.7	28.8	28.2	29.2
	6H	28.4	29.3	28.8	29.8	30.2	28.2	29.1	28.7	29.6
	8H	28.5	29.4	29.0	29.9	30.3	28.4	29.2	28.8	29.7
	12H	28.6	29.4	29.1	29.9	30.3	28.4	29.2	28.9	29.7

8H	4H	28.1	29.0	28.6	29.4	29.9	28.0	28.9	28.4	29.3
	6H	28.7	29.5	29.2	29.9	30.4	28.6	29.3	29.1	29.8
	8H	29.0	29.6	29.5	30.1	30.6	28.8	29.4	29.3	29.9
	12H	29.1	29.6	29.6	30.1	30.7	28.9	29.5	29.4	30.0

12H	4H	28.1	28.9	28.6	29.4	29.9	28.0	28.8	28.5	29.3
	6H	28.8	29.4	29.3	29.9	30.4	28.6	29.3	29.2	29.7
	8H	29.0	29.6	29.5	30.1	30.6	28.9	29.4	29.4	29.9

Maximum UGR = 30.7

POLAR GRAPH



Maximum Candela = 5905.594 Located At Horizontal Angle = 0, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)