



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75-8-L100-835-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

[ISSUEDATE] 11-NOV-2019

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

[LUMINAIRE] 8' STRIP w/WHITE REFLECTOR

[LUMCAT] 75-8-L100-835-DIM-UNV

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	10038
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	158
Total Luminaire Watts	63.5
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	21660	20713	20425
55	21121	19974	19553
65	19696	18137	17557
75	16626	14679	14052
85	8769	8319	6834

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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	3408.058	3408.058	3408.058	3408.058	3408.058
5	3432.961	3411.616	3397.386	3387.899	3384.342
10	3395.014	3373.669	3357.068	3347.581	3342.838
15	3338.095	3310.821	3294.219	3279.989	3284.733
20	3247.972	3225.441	3206.468	3192.238	3200.539
25	3134.133	3115.160	3087.886	3076.028	3071.284
30	3006.064	2978.790	2947.959	2938.472	2913.570
35	2842.420	2819.890	2784.315	2777.200	2751.112
40	2652.688	2605.255	2586.282	2573.238	2566.123
45	2430.939	2372.834	2360.976	2350.303	2342.002
50	2185.474	2132.112	2122.625	2117.882	2090.608
55	1923.407	1867.673	1859.372	1859.372	1835.656
60	1638.809	1589.004	1565.288	1575.960	1540.385
65	1322.194	1285.433	1258.159	1280.690	1233.257
70	1002.021	955.774	941.544	965.261	928.500
75	684.220	639.159	639.159	639.159	624.929
80	364.048	356.933	356.933	351.004	336.774
85	122.140	128.069	136.370	130.441	118.582
90	10.672	10.672	16.602	10.672	10.672
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	1255.08	N.A.	12.50
0-30	2682.48	N.A.	26.70
0-40	4428.28	N.A.	44.10
0-60	7920.33	N.A.	78.90
0-80	9864.71	N.A.	98.30
0-90	10034.44	N.A.	100.00
10-90	9711.1	N.A.	96.70
20-40	3173.2	N.A.	31.60
20-50	5000.15	N.A.	49.80
40-70	4751.49	N.A.	47.30
60-80	1944.37	N.A.	19.40
70-80	684.93	N.A.	6.80
80-90	169.74	N.A.	1.70
90-110	3.33	N.A.	0.00
90-120	3.33	N.A.	0.00
90-130	3.33	N.A.	0.00
90-150	3.33	N.A.	0.00
90-180	3.33	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	10037.77	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	323.35
10-20	931.74
20-30	1427.39
30-40	1745.81
40-50	1826.95
50-60	1665.1
60-70	1259.44
70-80	684.93
80-90	169.74
90-100	3.33
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

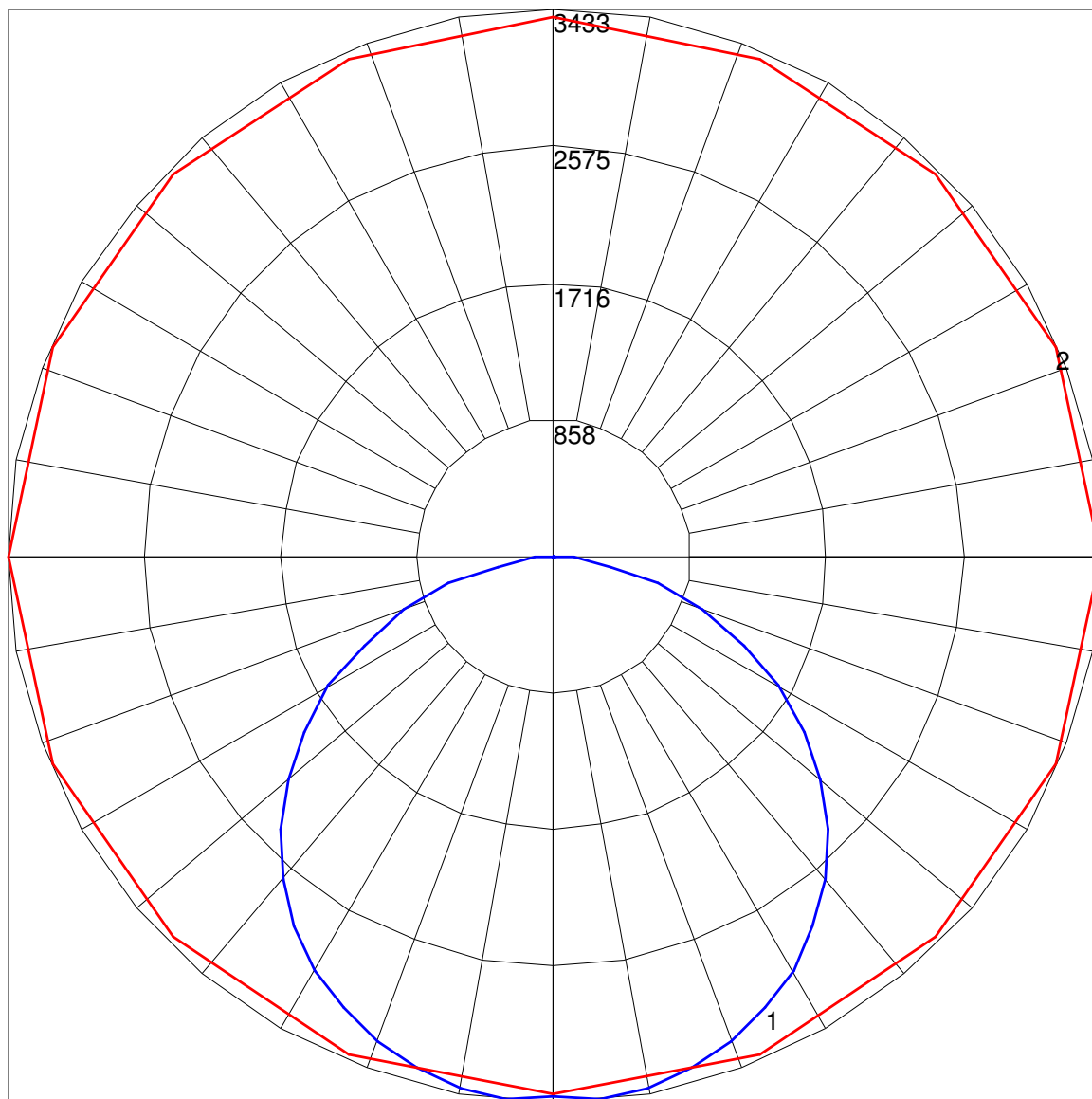
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	22.6	24.3	23.0	24.6	24.9	22.5	24.2	22.9	24.5	24.8
	3H	24.4	25.9	24.8	26.3	26.6	24.3	25.8	24.7	26.1	26.5
	4H	25.1	26.5	25.5	26.8	27.2	24.9	26.3	25.3	26.6	27.0
	6H	25.5	26.8	25.9	27.2	27.5	25.3	26.6	25.7	26.9	27.3
	8H	25.6	26.8	26.0	27.2	27.6	25.4	26.6	25.8	27.0	27.4
	12H	25.7	26.9	26.1	27.2	27.7	25.4	26.6	25.9	27.0	27.4
4H	2H	23.2	24.6	23.6	25.0	25.4	23.1	24.6	23.5	24.9	25.3
	3H	25.2	26.4	25.6	26.8	27.2	25.1	26.3	25.5	26.7	27.1
	4H	26.0	27.0	26.4	27.4	27.9	25.8	26.9	26.3	27.3	27.7
	6H	26.5	27.4	26.9	27.9	28.3	26.3	27.2	26.8	27.7	28.1
	8H	26.6	27.5	27.1	28.0	28.4	26.5	27.3	26.9	27.8	28.2
	12H	26.7	27.5	27.2	28.0	28.4	26.5	27.3	27.0	27.8	28.3
8H	4H	26.2	27.1	26.7	27.5	28.0	26.1	27.0	26.5	27.4	27.9
	6H	26.8	27.6	27.3	28.0	28.5	26.7	27.4	27.2	27.9	28.4
	8H	27.1	27.7	27.6	28.2	28.7	26.9	27.5	27.4	28.0	28.5
	12H	27.2	27.7	27.7	28.2	28.8	27.0	27.6	27.5	28.1	28.6
12H	4H	26.2	27.0	26.7	27.5	28.0	26.1	26.9	26.6	27.4	27.8
	6H	26.9	27.5	27.4	28.0	28.5	26.7	27.4	27.3	27.8	28.4
	8H	27.1	27.7	27.6	28.2	28.7	27.0	27.5	27.5	28.0	28.6

Maximum UGR = 28.8

POLAR GRAPH



Maximum Candela = 3432.961 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.)