



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75-4-L50-835-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] 4' STRIP w/WHITE REFLECTOR
 [LUMCAT] 75-4-L50/835-DIM-UNV

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5360
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	172
Total Luminaire Watts	31.2
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)	3.62 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	24345	23287	22974
55	23733	22451	21994
65	22120	20379	19748
75	18650	16481	15806
85	9783	9311	7687

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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	1819.804	1819.804	1819.804	1819.804	1819.804
5	1833.101	1821.704	1814.105	1809.040	1807.140
10	1812.839	1801.441	1792.577	1787.511	1784.978
15	1782.445	1767.882	1759.017	1751.419	1753.952
20	1734.323	1722.292	1712.161	1704.562	1708.995
25	1673.536	1663.405	1648.841	1642.509	1639.976
30	1605.151	1590.587	1574.124	1569.058	1555.761
35	1517.770	1505.739	1486.743	1482.944	1469.014
40	1416.458	1391.131	1380.999	1374.034	1370.235
45	1298.051	1267.024	1260.692	1254.994	1250.561
50	1166.979	1138.486	1133.420	1130.887	1116.324
55	1027.043	997.283	992.851	992.851	980.187
60	875.076	848.482	835.818	841.517	822.521
65	706.013	686.384	671.820	683.851	658.523
70	535.050	510.356	502.757	515.421	495.792
75	365.354	341.292	341.292	341.292	333.694
80	194.391	190.592	190.592	187.426	179.828
85	65.219	68.385	72.817	69.652	63.320
90	5.699	5.699	8.865	5.699	5.699
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	670.18	N.A.	12.50
0-30	1432.36	N.A.	26.70
0-40	2364.57	N.A.	44.10
0-60	4229.23	N.A.	78.90
0-80	5267.47	N.A.	98.30
0-90	5358.1	N.A.	100.00
10-90	5185.44	N.A.	96.70
20-40	1694.4	N.A.	31.60
20-50	2669.93	N.A.	49.80
40-70	2537.16	N.A.	47.30
60-80	1038.24	N.A.	19.40
70-80	365.73	N.A.	6.80
80-90	90.64	N.A.	1.70
90-110	1.78	N.A.	0.00
90-120	1.78	N.A.	0.00
90-130	1.78	N.A.	0.00
90-150	1.78	N.A.	0.00
90-180	1.78	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	5359.88	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	172.66
10-20	497.52
20-30	762.19
30-40	932.21
40-50	975.54
50-60	889.11
60-70	672.51
70-80	365.73
80-90	90.64
90-100	1.78
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	236	236	236	236	231	231	231	231	221	221	221	211	211	211	203	203	203	199
1	216	206	198	190	211	202	194	187	193	187	181	186	180	176	178	174	170	166
2	196	180	166	155	191	176	163	153	169	158	149	162	153	146	156	149	142	138
3	179	158	141	128	174	154	139	127	148	135	125	143	132	122	138	128	120	116
4	163	139	122	108	159	137	120	107	132	117	106	127	115	104	123	112	103	99
5	150	124	106	93	146	122	105	92	118	103	91	114	101	90	110	99	89	85
6	138	112	94	81	135	110	93	81	106	91	80	103	89	79	100	88	78	74
7	128	101	84	71	125	100	83	71	96	81	71	94	80	70	91	79	69	65
8	119	92	75	63	116	91	75	63	88	73	63	86	72	62	83	71	62	58
9	111	85	68	57	109	83	68	57	81	67	57	79	66	56	77	65	56	52
10	104	78	62	52	102	77	62	51	75	61	51	73	60	51	71	59	51	47

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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	20.7	22.4	21.1	22.7	23.0	20.6	22.3	21.0	22.6	22.9
	3H	22.5	24.0	22.9	24.3	24.7	22.4	23.9	22.7	24.2	24.5
	4H	23.2	24.6	23.6	24.9	25.3	23.0	24.4	23.4	24.7	25.1
	6H	23.6	24.9	24.0	25.2	25.6	23.3	24.6	23.7	25.0	25.4
	8H	23.7	24.9	24.1	25.3	25.7	23.4	24.7	23.9	25.1	25.5
	12H	23.7	24.9	24.2	25.3	25.7	23.5	24.7	23.9	25.1	25.5

UGR Viewed Endwise

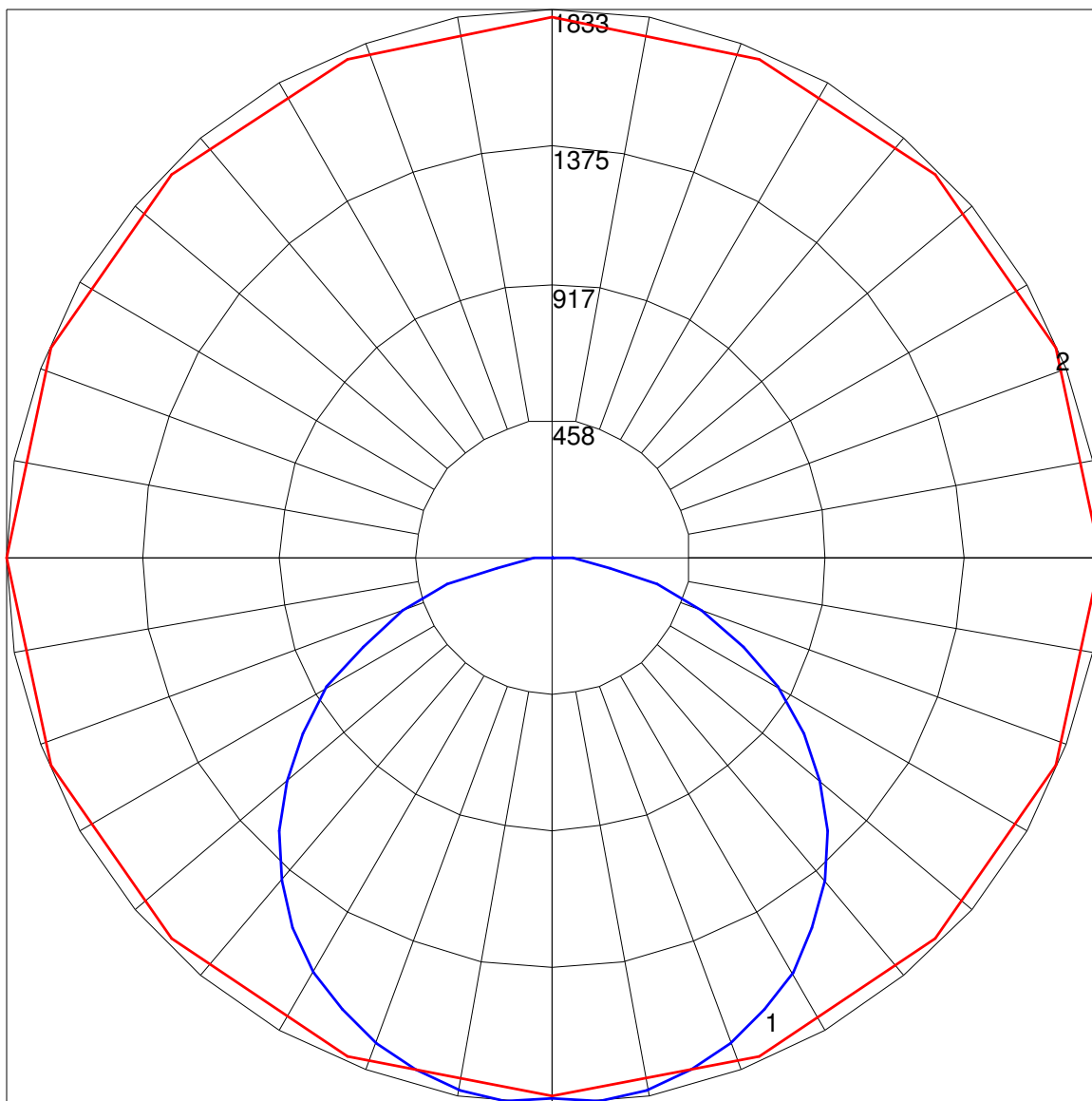
4H	2H	21.3	22.7	21.7	23.1	23.4	21.2	22.6	21.6	23.0	23.4
	3H	23.3	24.5	23.7	24.9	25.3	23.2	24.4	23.6	24.8	25.2
	4H	24.1	25.1	24.5	25.5	26.0	23.9	25.0	24.3	25.4	25.8
	6H	24.6	25.5	25.0	25.9	26.4	24.4	25.3	24.9	25.8	26.2
	8H	24.7	25.6	25.2	26.0	26.5	24.5	25.4	25.0	25.9	26.3
	12H	24.8	25.6	25.3	26.1	26.5	24.6	25.4	25.1	25.9	26.3

8H	4H	24.3	25.2	24.8	25.6	26.1	24.2	25.0	24.6	25.5	25.9
	6H	24.9	25.6	25.4	26.1	26.6	24.8	25.5	25.3	26.0	26.5
	8H	25.1	25.8	25.6	26.3	26.8	25.0	25.6	25.5	26.1	26.6
	12H	25.2	25.8	25.8	26.3	26.9	25.1	25.7	25.6	26.2	26.7

12H	4H	24.3	25.1	24.8	25.6	26.0	24.2	25.0	24.7	25.4	25.9
	6H	25.0	25.6	25.5	26.1	26.6	24.8	25.5	25.3	25.9	26.5
	8H	25.2	25.8	25.7	26.3	26.8	25.0	25.6	25.5	26.1	26.7

Maximum UGR = 26.9

POLAR GRAPH



Maximum Candela = 1833.101 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.)