



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75-8-L56-8FS-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] 25-OCT-2019

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

[LUMINAIRE] 8' STRIP w/WHITE REFLECTOR

[LUMCAT] 75-8-L56-8FS-DIM-UNV

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5709
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	188
Total Luminaire Watts	30.4
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	12319	11781	11616
55	12012	11360	11121
65	11202	10315	9985
75	9456	8348	7992
85	4987	4732	3887

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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	1938.295	1938.295	1938.295	1938.295	1938.295
5	1952.457	1940.318	1932.225	1926.829	1924.806
10	1930.876	1918.736	1909.294	1903.899	1901.201
15	1898.504	1882.992	1873.550	1865.457	1868.154
20	1847.247	1834.433	1823.642	1815.549	1820.270
25	1782.503	1771.712	1756.200	1749.456	1746.758
30	1709.665	1694.153	1676.618	1671.223	1657.060
35	1616.594	1603.780	1583.548	1579.501	1564.664
40	1508.686	1481.710	1470.919	1463.500	1459.454
45	1382.569	1349.522	1342.778	1336.708	1331.987
50	1242.963	1212.614	1207.219	1204.521	1189.009
55	1093.916	1062.218	1057.497	1057.497	1044.008
60	932.054	903.728	890.240	896.309	876.077
65	751.983	731.076	715.564	728.378	701.401
70	569.888	543.586	535.493	548.981	528.074
75	389.143	363.515	363.515	363.515	355.421
80	207.048	203.002	203.002	199.630	191.536
85	69.466	72.838	77.559	74.187	67.442
90	6.070	6.070	9.442	6.070	6.070
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	713.81	N.A.	12.50
0-30	1525.63	N.A.	26.70
0-40	2518.54	N.A.	44.10
0-60	4504.6	N.A.	78.90
0-80	5610.44	N.A.	98.30
0-90	5706.98	N.A.	100.00
10-90	5523.08	N.A.	96.70
20-40	1804.72	N.A.	31.60
20-50	2843.78	N.A.	49.80
40-70	2702.36	N.A.	47.30
60-80	1105.84	N.A.	19.40
70-80	389.55	N.A.	6.80
80-90	96.54	N.A.	1.70
90-110	1.89	N.A.	0.00
90-120	1.89	N.A.	0.00
90-130	1.89	N.A.	0.00
90-150	1.89	N.A.	0.00
90-180	1.89	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	5708.87	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	183.90
10-20	529.91
20-30	811.81
30-40	992.91
40-50	1039.06
50-60	947.01
60-70	716.29
70-80	389.55
80-90	96.54
90-100	1.89
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	252	252	252	252	246	246	246	246	235	235	235	225	225	225	216	216	216	211
1	230	220	211	203	224	215	207	199	206	199	193	198	192	187	190	186	181	177
2	209	191	177	165	203	187	174	163	180	169	159	173	163	155	166	159	152	147
3	190	168	150	136	185	164	148	135	158	144	133	152	140	130	147	137	128	124
4	174	148	130	115	169	146	128	114	140	125	113	135	122	111	131	119	110	105
5	160	132	113	99	155	130	112	98	125	110	97	121	107	96	117	105	95	91
6	147	119	100	86	143	117	99	86	113	97	85	110	95	84	106	93	83	79
7	137	108	89	76	133	106	88	76	103	87	75	100	85	75	97	84	74	70
8	127	98	80	68	124	97	79	67	94	78	67	91	77	67	89	76	66	62
9	119	90	73	61	116	89	72	61	86	71	60	84	70	60	82	69	60	56
10	111	83	66	55	108	82	66	55	80	65	55	78	64	54	76	63	54	50

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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

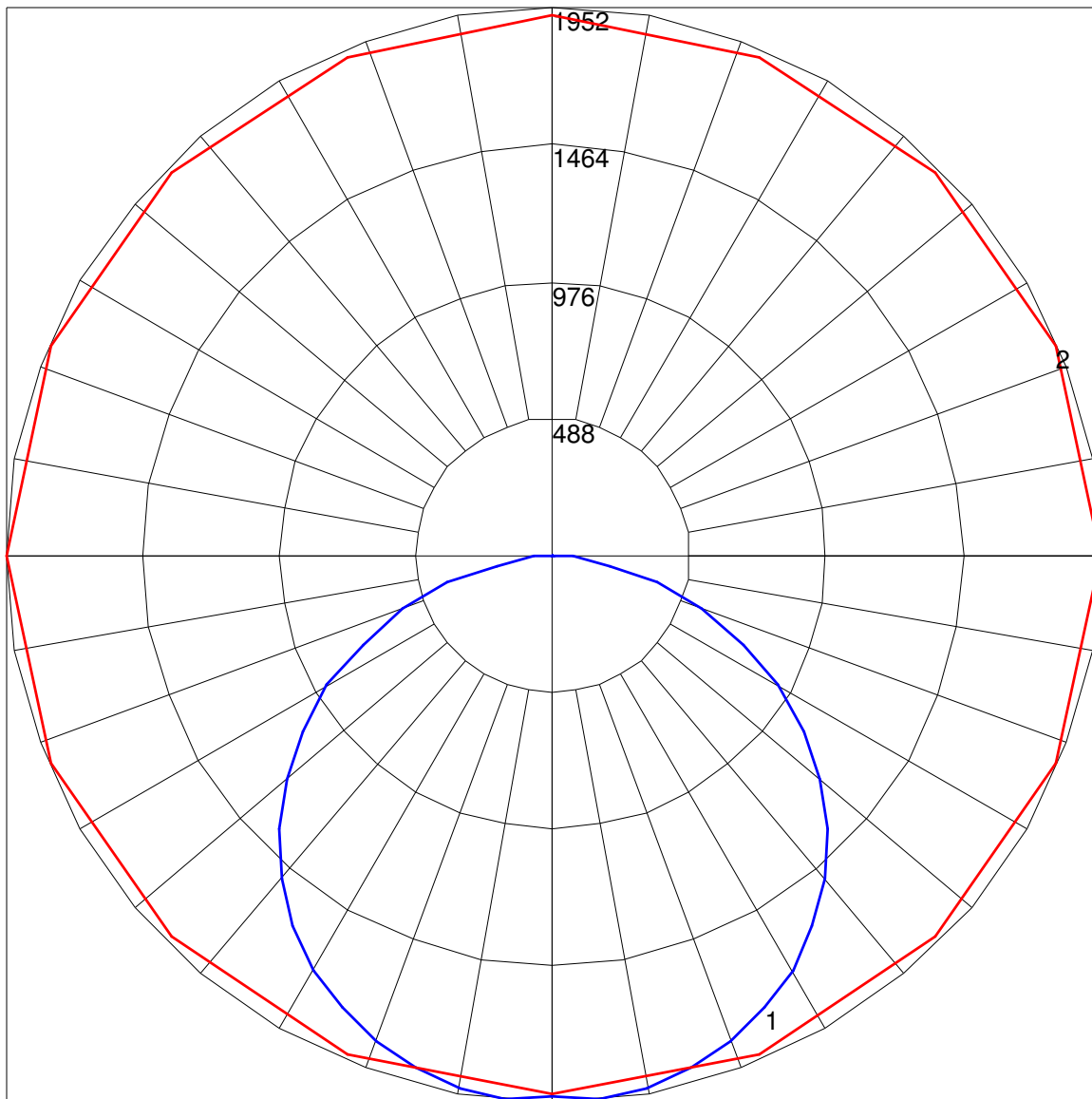
4H	2H	21.3	22.7	21.7	23.1	23.4	21.2	22.6	21.6	23.0	23.4
	3H	23.3	24.5	23.7	24.9	25.3	23.2	24.4	23.6	24.8	25.2
	4H	24.1	25.1	24.5	25.5	26.0	23.9	25.0	24.3	25.4	25.8
	6H	24.6	25.5	25.0	25.9	26.4	24.4	25.3	24.9	25.8	26.2
	8H	24.7	25.6	25.2	26.0	26.5	24.5	25.4	25.0	25.9	26.3
	12H	24.8	25.6	25.3	26.1	26.5	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 = 1952.457 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.)