



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75R-8-L56-8FS-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 19750.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 1-NOV-2019

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 8' SURFACE MOUNT STRIP LUMINAIRE

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC ROUND LENS

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

[_SEARCH_SOURCETYPE] LED

[_SEARCH_APPLICATION] Indoor, Commercial, Industrial, Manufacturing, Utility, Warehouse, Linear

[_SEARCH_MOUNTING] Surface, Suspended

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5366
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	155
Total Luminaire Watts	34.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	7.44 ft
Luminous Width (90-270)	0.21 ft
Luminous Height	0.10 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	9509	7989	7917
55	7893	6850	6970
65	6561	5769	5871
75	4522	4758	4811
85	2876	4112	3945

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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	1718.662	1718.662	1718.662	1718.662	1718.662
5	1737.531	1712.099	1712.920	1708.818	1691.590
10	1708.818	1687.488	1691.590	1689.129	1673.542
15	1658.776	1643.189	1654.674	1659.596	1643.189
20	1583.302	1579.200	1598.889	1607.093	1597.248
25	1494.703	1500.445	1528.338	1547.206	1539.823
30	1392.978	1401.181	1448.763	1477.475	1475.835
35	1269.103	1283.869	1352.780	1392.978	1398.720
40	1137.024	1147.689	1234.648	1295.354	1309.301
45	981.155	1008.227	1108.312	1188.707	1208.396
50	819.543	863.023	985.257	1073.036	1097.647
55	664.495	721.100	858.921	950.802	986.077
60	534.877	587.380	737.507	829.388	866.304
65	411.002	468.428	624.297	707.974	739.968
70	287.948	365.062	516.829	589.842	621.015
75	177.199	275.642	417.565	486.476	513.548
80	98.444	190.324	333.068	397.056	414.284
85	41.839	131.258	265.798	320.762	332.247
90	5.743	90.240	205.911	254.313	269.900
95	0.820	61.527	164.893	201.809	218.217
100	0.000	40.198	127.977	164.893	178.019
105	0.000	28.713	99.264	134.540	145.204
110	0.000	19.689	76.294	109.929	118.953
115	0.000	16.407	62.348	91.881	98.444
120	0.000	12.305	47.581	75.473	82.036
125	0.000	7.383	35.276	59.887	67.270
130	0.000	4.922	25.431	46.761	53.324
135	0.000	2.461	18.868	36.916	41.839
140	0.000	2.461	13.126	28.713	32.815
145	0.000	0.000	8.204	18.048	22.970
150	0.000	0.000	5.743	13.126	16.407
155	0.000	0.000	4.102	6.563	10.665
160	0.000	0.000	1.641	4.922	5.743
165	0.000	0.000	0.000	1.641	2.461
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	628.47	N.A.	11.70
0-30	1330.47	N.A.	24.80
0-40	2168.18	N.A.	40.40
0-60	3769.23	N.A.	70.20
0-80	4765.76	N.A.	88.80
0-90	5016.23	N.A.	93.50
10-90	4853.51	N.A.	90.50
20-40	1539.71	N.A.	28.70
20-50	2388.51	N.A.	44.50
40-70	2191.32	N.A.	40.80
60-80	996.53	N.A.	18.60
70-80	406.26	N.A.	7.60
80-90	250.46	N.A.	4.70
90-110	239.02	N.A.	4.50
90-120	293.82	N.A.	5.50
90-130	324.92	N.A.	6.10
90-150	347.13	N.A.	6.50
90-180	349.46	N.A.	6.50
110-180	110.44	N.A.	2.10
0-180	5365.68	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	162.71
10-20	465.76
20-30	702.00
30-40	837.71
40-50	848.80
50-60	752.25
60-70	590.27
70-80	406.26
80-90	250.46
90-100	149.13
100-110	89.89
110-120	54.80
120-130	31.11
130-140	15.72
140-150	6.49
150-160	2.03
160-170	0.30
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	249	249	249	249	241	241	241	241	227	227	227	215	215	215	203	203	203	198
1	224	213	203	194	217	207	198	190	195	188	181	185	179	173	175	170	166	160
2	203	185	170	157	196	180	166	154	170	158	148	161	151	143	152	145	138	132
3	185	162	144	130	179	158	141	128	149	135	124	142	130	120	134	125	116	111
4	169	144	125	110	163	140	122	108	133	117	105	126	113	103	120	109	100	95
5	156	128	109	95	150	125	107	93	119	103	91	113	100	89	108	96	87	82
6	144	115	96	83	139	113	95	82	107	92	80	103	89	78	98	86	76	72
7	133	105	86	73	129	102	85	72	98	82	71	93	80	69	89	77	68	63
8	124	95	77	65	120	93	76	64	89	74	63	86	72	62	82	70	61	56
9	116	88	70	58	112	86	69	58	82	67	57	79	66	56	76	64	55	51
10	109	81	64	53	105	79	63	52	76	62	52	73	60	51	71	59	50	46

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UGR TABLE - CORRECTED

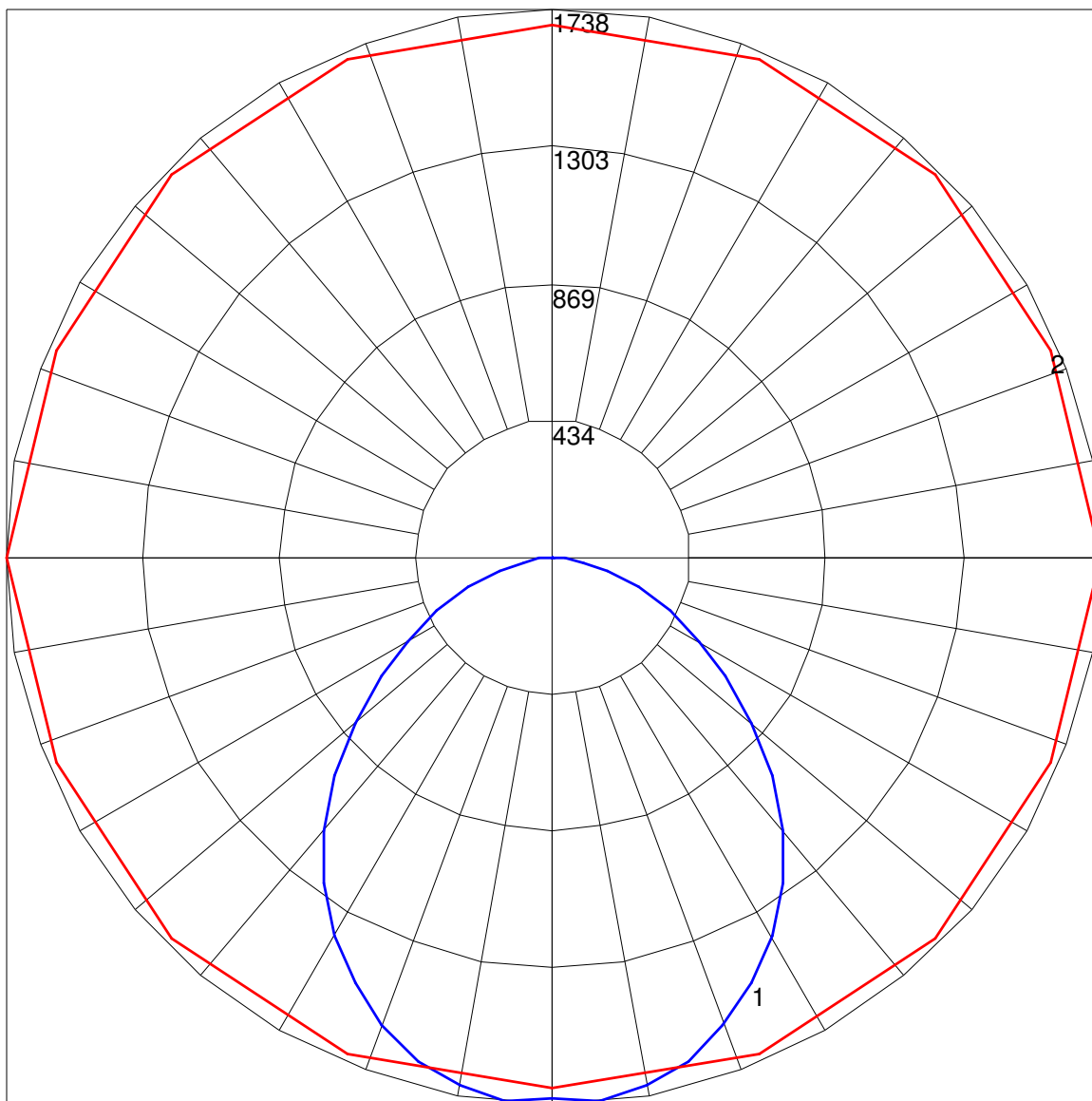
Reflectances

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	17.0	18.5	17.5	19.0	19.5	19.4	20.9	19.8	21.3	21.8
	3H	18.5	19.9	19.0	20.3	20.9	21.6	22.9	22.0	23.4	23.9
	4H	19.0	20.3	19.5	20.8	21.3	22.6	23.9	23.1	24.4	24.9
	6H	19.3	20.5	19.8	21.0	21.6	23.6	24.8	24.2	25.3	25.9
	8H	19.4	20.5	19.9	21.1	21.6	24.2	25.3	24.7	25.8	26.4
	12H	19.5	20.6	20.0	21.1	21.7	24.7	25.8	25.3	26.3	26.9
4H	2H	17.8	19.1	18.3	19.6	20.1	19.7	21.0	20.2	21.5	22.0
	3H	19.5	20.6	20.0	21.1	21.7	22.1	23.2	22.6	23.7	24.3
	4H	20.1	21.1	20.7	21.6	22.2	23.3	24.3	23.8	24.8	25.4
	6H	20.6	21.4	21.1	22.0	22.6	24.5	25.4	25.1	26.0	26.6
	8H	20.7	21.5	21.3	22.1	22.7	25.1	26.0	25.7	26.5	27.1
	12H	20.8	21.5	21.4	22.1	22.8	25.8	26.6	26.4	27.2	27.8
8H	4H	20.6	21.5	21.2	22.0	22.6	23.5	24.3	24.0	24.8	25.5
	6H	21.2	21.9	21.8	22.6	23.2	24.8	25.5	25.4	26.1	26.7
	8H	21.5	22.1	22.1	22.7	23.4	25.6	26.2	26.2	26.8	27.5
	12H	21.7	22.2	22.3	22.8	23.5	26.4	27.0	27.0	27.6	28.3
12H	4H	20.7	21.5	21.3	22.1	22.7	23.4	24.2	24.0	24.8	25.4
	6H	21.5	22.1	22.1	22.7	23.3	24.9	25.5	25.5	26.1	26.8
	8H	21.8	22.3	22.4	22.9	23.6	25.6	26.2	26.3	26.8	27.5

Maximum UGR = 28.3

POLAR GRAPH



Maximum Candela = 1737.531 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.)