



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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN from BALLABS TEST NO. 19745.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUEDATE] 1-SEP-2020
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO.64836
 [LUMINAIRE] 8'LED STRIP LUMINAIRE
 [MORE] WITH FROSTED ACRYLIC LENS
 [LUMCAT] 75S-8-L170-835-DIM-UNV
 [LAMPCAT]HLM 80 CRI, 3500K CCT
 [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	16197
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	144
Total Luminaire Watts	112.4
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.18
Spacing Criterion (Diagonal)	1.30
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	7.44 ft
Luminous Width (90-270)	0.21 ft
Luminous Height	0.08 ft



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	29479	23671	22244
55	25107	19880	19932
65	19864	17029	18106
75	13902	13971	16064
85	6648	11930	14082

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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	5464.973	5464.973	5464.973	5464.973	5464.973
5	5511.978	5442.708	5440.234	5427.864	5363.541
10	5417.968	5356.119	5361.067	5346.223	5286.848
15	5267.057	5207.682	5222.525	5207.682	5158.202
20	5014.713	4970.182	5014.713	4992.447	4940.494
25	4702.994	4685.676	4725.260	4722.786	4646.093
30	4359.114	4366.536	4411.067	4411.067	4317.057
35	3938.541	3997.916	4020.182	4027.604	3931.119
40	3480.859	3569.921	3550.130	3589.713	3540.234
45	3033.073	3112.239	3107.291	3179.036	3166.666
50	2575.390	2647.135	2704.036	2825.260	2850.000
55	2105.338	2194.401	2320.573	2501.172	2582.812
60	1662.500	1771.354	1986.588	2209.245	2315.625
65	1236.979	1410.156	1679.817	1934.635	2043.489
70	848.568	1076.172	1365.625	1642.708	1771.354
75	539.323	757.031	1083.594	1360.677	1489.323
80	294.401	504.687	851.042	1103.385	1222.135
85	94.010	309.245	645.703	870.833	982.161
90	0.000	200.391	492.318	702.604	779.297
95	0.000	183.073	460.156	643.229	687.760
100	0.000	173.177	427.995	586.328	625.911
105	0.000	158.333	400.781	541.797	581.380
110	0.000	148.437	373.568	507.161	546.745
115	0.000	136.068	341.406	475.000	512.109
120	0.000	116.276	306.771	430.469	475.000
125	0.000	96.484	277.083	393.359	432.943
130	0.000	79.167	239.974	351.302	378.516
135	0.000	71.745	192.969	304.297	331.510
140	0.000	59.375	150.911	254.818	282.031
145	0.000	47.005	116.276	197.917	225.130
150	0.000	34.635	89.062	150.911	173.177
155	0.000	27.214	71.745	108.854	126.172
160	0.000	0.000	51.953	79.167	89.062
165	0.000	0.000	34.635	56.901	61.849
170	0.000	0.000	0.000	34.635	37.109
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	1983.9	N.A.	12.20
0-30	4149.84	N.A.	25.60
0-40	6643.09	N.A.	41.00
0-60	11162.72	N.A.	68.90
0-80	13939.89	N.A.	86.10
0-90	14603.03	N.A.	90.20
10-90	14086.67	N.A.	87.00
20-40	4659.18	N.A.	28.80
20-50	7077.43	N.A.	43.70
40-70	6171.61	N.A.	38.10
60-80	2777.17	N.A.	17.10
70-80	1125.2	N.A.	6.90
80-90	663.14	N.A.	4.10
90-110	815.97	N.A.	5.00
90-120	1114.68	N.A.	6.90
90-130	1334.74	N.A.	8.20
90-150	1553.14	N.A.	9.60
90-180	1594.07	N.A.	9.80
110-180	778.10	N.A.	4.80
0-180	16197.1	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	516.36
10-20	1467.54
20-30	2165.94
30-40	2493.24
40-50	2418.25
50-60	2101.38
60-70	1651.98
70-80	1125.2
80-90	663.14
90-100	446.46
100-110	369.51
110-120	298.71
120-130	220.06
130-140	142.62
140-150	75.78
150-160	31.71
160-170	8.75
170-180	0.48

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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	342	342	342	342	331	331	331	331	310	310	310	291	291	291	273	273	273	265
1	310	295	282	270	299	286	274	263	268	258	249	251	244	236	236	230	224	216
2	282	257	237	219	271	249	230	214	234	218	205	220	207	196	207	197	188	180
3	257	226	202	183	247	219	197	179	206	188	172	194	179	166	183	170	159	152
4	236	201	175	155	227	195	171	153	184	163	147	173	156	142	164	149	137	130
5	217	179	153	134	209	174	150	132	165	144	128	156	138	124	148	132	120	113
6	201	162	136	117	193	158	133	116	149	128	112	142	123	109	135	118	106	99
7	186	147	122	104	179	143	119	102	136	115	100	129	111	97	123	107	94	88
8	173	134	110	93	167	131	108	92	125	104	89	119	101	87	113	97	85	79
9	162	123	100	84	156	120	98	83	115	95	81	110	92	79	105	89	77	71
10	152	114	91	76	147	111	90	75	106	87	73	102	84	72	98	82	70	65

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UGR TABLE - CORRECTED

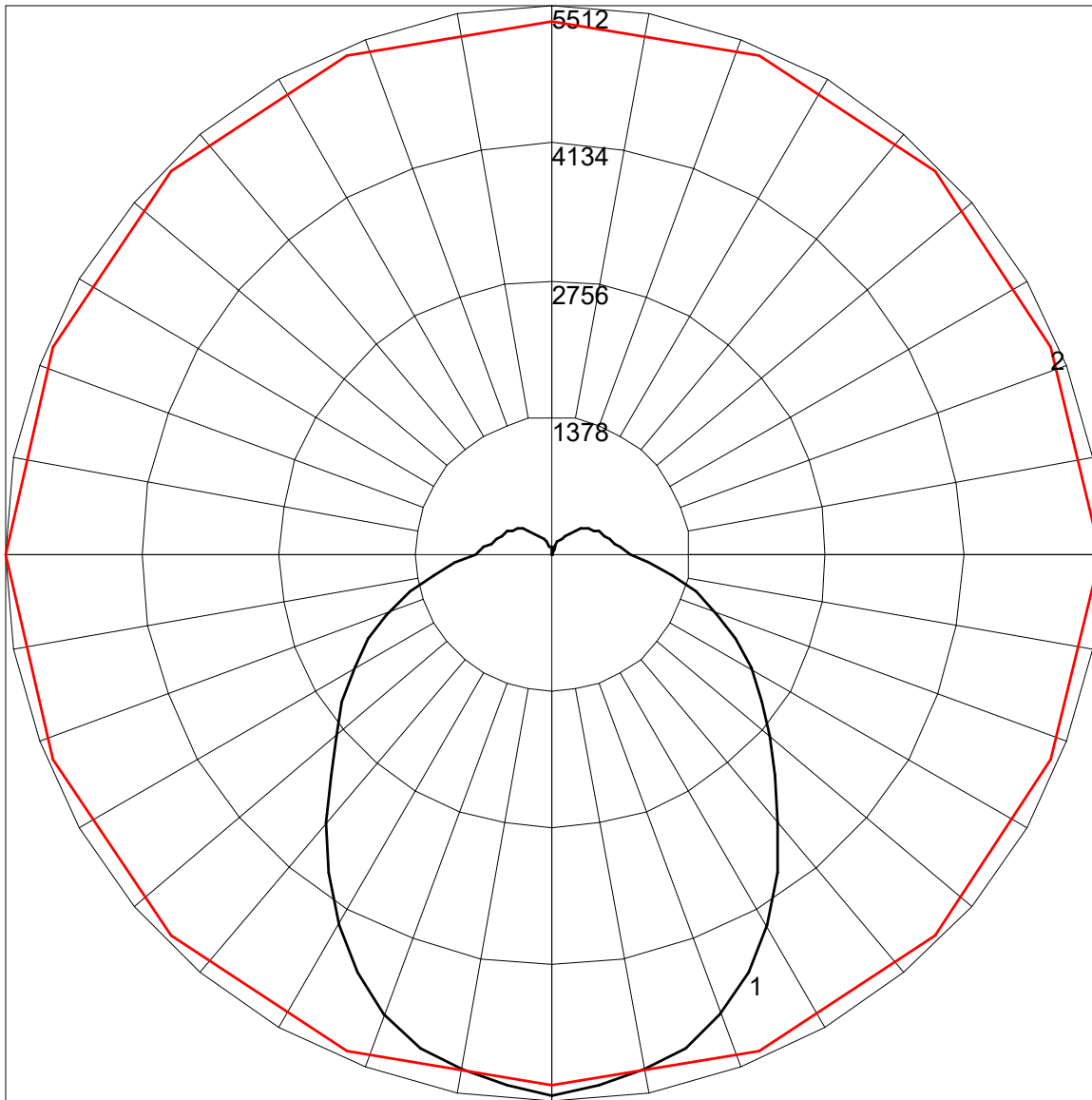
Reflectances

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	16.6	18.0	17.1	18.5	19.1	18.9	20.3	19.4	20.8	21.4
	3H	17.8	19.0	18.3	19.6	20.1	21.3	22.6	21.8	23.1	23.7
	4H	18.1	19.3	18.6	19.8	20.4	22.4	23.6	23.0	24.2	24.8
	6H	18.2	19.4	18.8	19.9	20.5	23.6	24.7	24.2	25.3	25.9
	8H	18.2	19.3	18.8	19.9	20.5	24.2	25.3	24.8	25.8	26.5
	12H	18.2	19.3	18.8	19.8	20.5	24.8	25.9	25.4	26.4	27.1
4H	2H	17.4	18.6	18.0	19.2	19.8	19.2	20.4	19.8	21.0	21.6
	3H	18.8	19.9	19.4	20.4	21.1	21.8	22.9	22.4	23.5	24.1
	4H	19.3	20.2	19.9	20.8	21.5	23.2	24.1	23.7	24.7	25.3
	6H	19.5	20.4	20.1	21.0	21.6	24.5	25.3	25.1	25.9	26.6
	8H	19.6	20.4	20.2	21.0	21.7	25.2	26.0	25.8	26.6	27.3
	12H	19.6	20.3	20.2	20.9	21.6	26.0	26.7	26.6	27.3	28.0
8H	4H	19.9	20.7	20.5	21.3	22.0	23.3	24.1	23.9	24.7	25.4
	6H	20.4	21.0	21.0	21.7	22.3	24.8	25.4	25.4	26.1	26.8
	8H	20.5	21.1	21.1	21.7	22.4	25.6	26.2	26.3	26.9	27.6
	12H	20.5	21.1	21.2	21.7	22.5	26.5	27.1	27.2	27.7	28.5
12H	4H	20.1	20.8	20.7	21.4	22.1	23.3	24.0	23.9	24.6	25.3
	6H	20.6	21.2	21.3	21.9	22.6	24.8	25.4	25.5	26.0	26.8
	8H	20.8	21.4	21.5	22.0	22.8	25.7	26.2	26.3	26.8	27.6

Maximum UGR = 28.5

POLAR GRAPH



Maximum Candela = 5511.978 Located At Horizontal Angle = 0, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (90 - 270)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)