



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75S-8-L240-835-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-L240-835-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	22984
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	134
Total Luminaire Watts	171.7
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	41831	33590	31565
55	35627	28210	28285
65	28188	24164	25694
75	19727	19825	22795
85	9434	16929	19982

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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	7754.951	7754.951	7754.951	7754.951	7754.951
5	7821.653	7723.355	7719.845	7702.292	7611.016
10	7688.249	7600.484	7607.505	7586.441	7502.187
15	7474.102	7389.847	7410.911	7389.847	7319.634
20	7116.019	7052.828	7116.019	7084.423	7010.700
25	6673.681	6649.107	6705.277	6701.766	6592.937
30	6185.706	6196.237	6259.428	6259.428	6126.025
35	5588.901	5673.156	5704.751	5715.283	5578.369
40	4939.437	5065.819	5037.734	5093.904	5023.692
45	4304.015	4416.355	4409.334	4511.142	4493.589
50	3654.551	3756.359	3837.103	4009.124	4044.230
55	2987.534	3113.916	3292.958	3549.233	3665.083
60	2359.134	2513.601	2819.025	3134.980	3285.937
65	1755.308	2001.051	2383.708	2745.302	2899.769
70	1204.141	1527.118	1937.860	2331.049	2513.601
75	765.314	1074.249	1537.650	1930.839	2113.391
80	417.763	716.166	1207.652	1565.735	1734.244
85	133.403	438.827	916.271	1235.737	1393.715
90	0.000	284.360	698.613	997.015	1105.844
95	0.000	259.786	652.975	912.760	975.951
100	0.000	245.743	607.337	832.016	888.186
105	0.000	224.679	568.720	768.825	824.995
110	0.000	210.637	530.103	719.676	775.846
115	0.000	193.084	484.465	674.038	726.698
120	0.000	164.999	435.316	610.847	674.038
125	0.000	136.914	393.189	558.188	614.358
130	0.000	112.340	340.530	498.507	537.124
135	0.000	101.808	273.828	431.806	470.423
140	0.000	84.255	214.148	361.593	400.210
145	0.000	66.702	164.999	280.849	319.466
150	0.000	49.149	126.382	214.148	245.743
155	0.000	38.617	101.808	154.467	179.041
160	0.000	0.000	73.723	112.340	126.382
165	0.000	0.000	49.149	80.744	87.765
170	0.000	0.000	0.000	49.149	52.659
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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Zone	Lumens	%Lamp	%Fixt
0-20	2815.21	N.A.	12.20
0-30	5888.75	N.A.	25.60
0-40	9426.73	N.A.	41.00
0-60	15840.21	N.A.	68.90
0-80	19781.1	N.A.	86.10
0-90	20722.11	N.A.	90.20
10-90	19989.38	N.A.	87.00
20-40	6611.51	N.A.	28.80
20-50	10043.08	N.A.	43.70
40-70	8757.69	N.A.	38.10
60-80	3940.89	N.A.	17.10
70-80	1596.69	N.A.	6.90
80-90	941.01	N.A.	4.10
90-110	1157.89	N.A.	5.00
90-120	1581.77	N.A.	6.90
90-130	1894.04	N.A.	8.20
90-150	2203.95	N.A.	9.60
90-180	2262.03	N.A.	9.80
110-180	1104.14	N.A.	4.80
0-180	22984.14	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	732.73
10-20	2082.48
20-30	3073.53
30-40	3537.98
40-50	3431.56
50-60	2981.92
60-70	2344.2
70-80	1596.69
80-90	941.01
90-100	633.54
100-110	524.34
110-120	423.88
120-130	312.27
130-140	202.38
140-150	107.54
150-160	44.99
160-170	12.41
170-180	0.68

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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	486	486	486	486	470	470	470	470	440	440	440	412	412	412	387	387	387	375
1	440	419	400	383	424	405	388	373	380	366	353	357	346	335	335	326	318	307
2	400	365	336	311	385	353	327	304	332	310	291	312	294	278	294	279	266	255
3	365	321	286	259	351	311	279	254	293	266	244	276	254	235	260	242	226	215
4	334	285	248	220	322	276	243	216	261	232	209	246	222	202	233	212	195	185
5	308	255	218	190	296	248	213	187	234	204	181	222	196	176	210	188	170	160
6	285	230	193	166	274	224	189	164	212	182	159	201	175	155	191	168	150	141
7	264	209	173	147	254	203	169	145	193	163	141	184	157	138	175	152	134	125
8	246	190	156	132	237	186	153	130	177	148	127	169	143	124	161	138	120	112
9	230	175	141	119	222	171	139	117	163	135	114	156	130	112	149	126	109	101
10	216	162	129	108	208	158	127	106	151	123	104	145	119	102	138	116	99	92

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UGR TABLE - CORRECTED

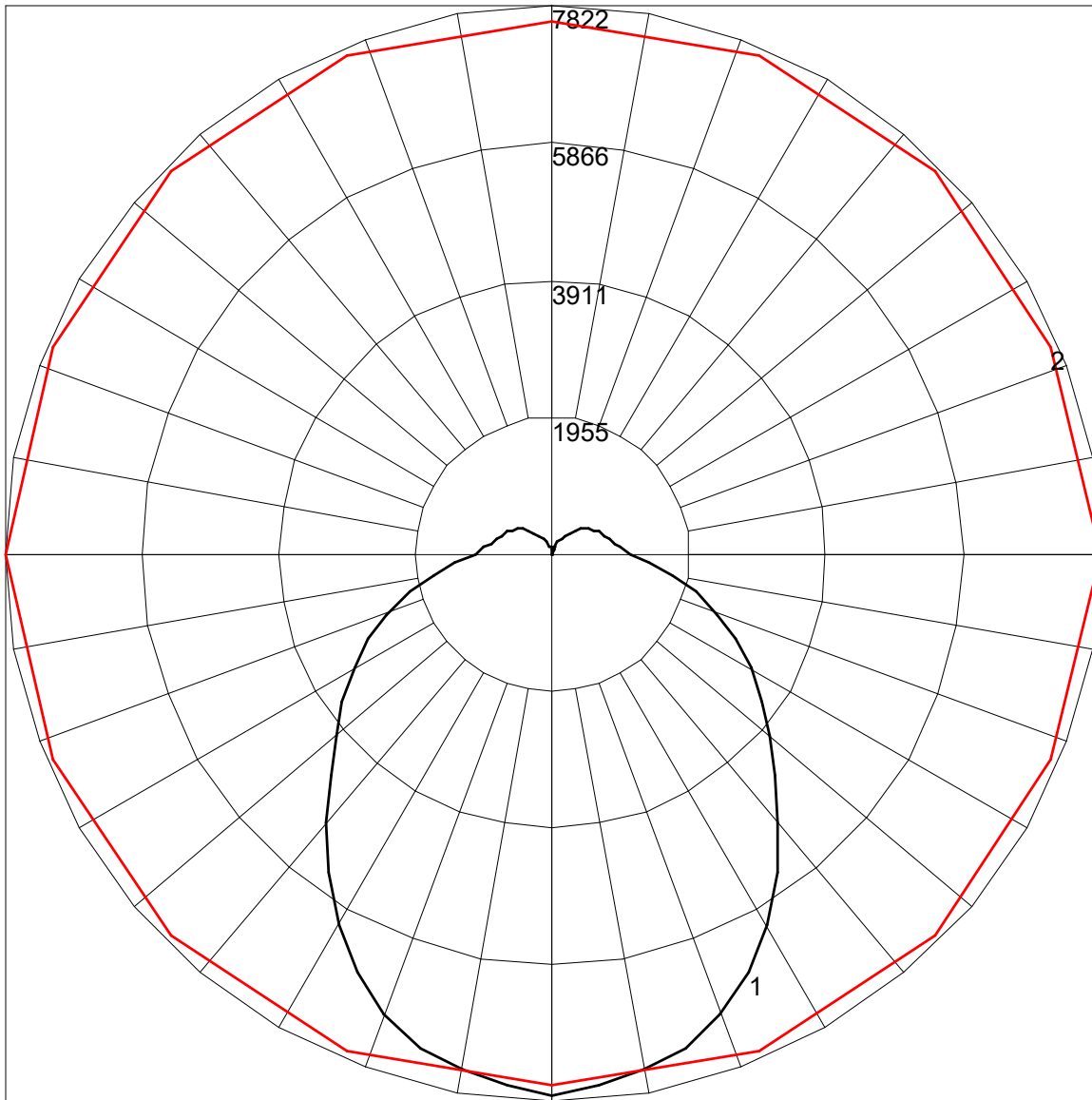
Reflectances

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 = 7821.653 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.)