



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75S-8-L130-840-(L120)-EM15W-DIM-UNV_EM MODE ONLY.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] 01-11-2024

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO.64836

[LUMINAIRE] 8'LED STRIP LUMINAIRE

[MORE] WITH FROSTED ACRYLIC LENS

[LUMCAT] 75S-8-L130-840-(L120)-EM15W-DIM-UNV

[LAMPCAT] HLM 80 CRI 4000K 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	2355
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	157
Total Luminaire Watts	15
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)	0.25 ft
Luminous Height	0.08 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3566	2973	2826
55	3037	2526	2568
65	2403	2198	2374
75	1682	1847	2160
85	804	1650	1976

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	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	794.592	794.592	794.592	794.592	794.592
5	801.427	791.355	790.995	789.196	779.844
10	787.758	778.765	779.484	777.326	768.693
15	765.816	757.183	759.341	757.183	749.988
20	729.125	722.651	729.125	725.888	718.334
25	683.802	681.284	687.040	686.680	675.529
30	633.803	634.882	641.357	641.357	627.688
35	572.653	581.286	584.523	585.603	571.574
40	506.107	519.057	516.179	521.934	514.740
45	441.000	452.511	451.792	462.223	460.425
50	374.455	384.886	393.159	410.785	414.382
55	306.110	319.060	337.405	363.663	375.534
60	241.723	257.550	288.844	321.218	336.685
65	179.853	205.033	244.241	281.291	297.118
70	123.379	156.472	198.558	238.845	257.550
75	78.416	110.070	157.552	197.839	216.543
80	42.805	73.380	123.739	160.429	177.695
85	13.669	44.963	93.883	126.617	142.804
90	0.000	29.136	71.582	102.157	113.308
95	0.000	26.618	66.905	93.524	99.998
100	0.000	25.179	62.229	85.250	91.006
105	0.000	23.021	58.272	78.776	84.531
110	0.000	21.582	54.316	73.740	79.495
115	0.000	19.784	49.640	69.064	74.459
120	0.000	16.906	44.604	62.589	69.064
125	0.000	14.029	40.287	57.193	62.949
130	0.000	11.511	34.892	51.078	55.035
135	0.000	10.431	28.057	44.244	48.201
140	0.000	8.633	21.942	37.050	41.007
145	0.000	6.834	16.906	28.777	32.733
150	0.000	5.036	12.949	21.942	25.179
155	0.000	3.957	10.431	15.827	18.345
160	0.000	0.000	7.554	11.511	12.949
165	0.000	0.000	5.036	8.273	8.993
170	0.000	0.000	0.000	5.036	5.396
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	288.45	N.A.	12.20
0-30	603.38	N.A.	25.60
0-40	965.89	N.A.	41.00
0-60	1623.03	N.A.	68.90
0-80	2026.82	N.A.	86.10
0-90	2123.24	N.A.	90.20
10-90	2048.16	N.A.	87.00
20-40	677.43	N.A.	28.80
20-50	1029.04	N.A.	43.70
40-70	897.33	N.A.	38.10
60-80	403.79	N.A.	17.10
70-80	163.60	N.A.	6.90
80-90	96.42	N.A.	4.10
90-110	118.64	N.A.	5.00
90-120	162.07	N.A.	6.90
90-130	194.07	N.A.	8.20
90-150	225.82	N.A.	9.60
90-180	231.77	N.A.	9.80
110-180	113.13	N.A.	4.80
0-180	2355.01	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	75.08
10-20	213.38
20-30	314.92
30-40	362.51
40-50	351.61
50-60	305.54
60-70	240.19
70-80	163.60
80-90	96.42
90-100	64.91
100-110	53.73
110-120	43.43
120-130	32.00
130-140	20.74
140-150	11.02
150-160	4.61
160-170	1.27
170-180	0.07

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Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	117	117	117	117	113	113	113	113	106	106	106	99	99	99	93	93	93	90
1	106	101	96	92	102	97	93	89	91	88	85	86	83	81	81	78	76	74
2	96	88	81	75	92	85	78	73	80	74	70	75	71	67	71	67	64	61
3	88	77	69	62	84	75	67	61	70	64	59	66	61	56	62	58	54	52
4	80	68	60	53	77	66	58	52	63	56	50	59	53	48	56	51	47	44
5	74	61	52	46	71	59	51	45	56	49	44	53	47	42	50	45	41	39
6	68	55	46	40	66	54	45	39	51	44	38	48	42	37	46	40	36	34
7	63	50	41	35	61	49	41	35	46	39	34	44	38	33	42	36	32	30
8	59	46	37	32	57	45	37	31	43	35	30	41	34	30	39	33	29	27
9	55	42	34	28	53	41	33	28	39	32	27	37	31	27	36	30	26	24
10	52	39	31	26	50	38	31	26	36	30	25	35	29	24	33	28	24	22

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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	13.3	14.7	13.8	15.2	15.7	15.4	16.9	16.0	17.4	17.9
	3H	14.5	15.7	15.0	16.3	16.9	17.9	19.1	18.4	19.7	20.3
	4H	14.8	16.0	15.3	16.5	17.1	19.0	20.2	19.5	20.7	21.3
	6H	15.0	16.1	15.5	16.6	17.3	20.2	21.3	20.7	21.8	22.5
	8H	15.0	16.1	15.6	16.6	17.3	20.7	21.8	21.3	22.4	23.0
	12H	15.0	16.0	15.6	16.6	17.2	21.4	22.4	22.0	23.0	23.7

UGR Viewed Endwise

4H	2H	14.1	15.3	14.6	15.8	16.5	15.8	17.0	16.4	17.6	18.2
	3H	15.5	16.6	16.1	17.1	17.8	18.4	19.5	19.0	20.0	20.7
	4H	16.0	16.9	16.6	17.5	18.2	19.7	20.7	20.3	21.3	21.9
	6H	16.3	17.1	16.9	17.7	18.4	21.1	21.9	21.7	22.5	23.2
	8H	16.3	17.1	16.9	17.7	18.4	21.8	22.6	22.4	23.2	23.9
	12H	16.3	17.0	17.0	17.7	18.4	22.5	23.3	23.2	23.9	24.6

8H	4H	16.6	17.4	17.3	18.0	18.7	19.9	20.7	20.5	21.3	22.0
	6H	17.1	17.8	17.7	18.4	19.1	21.4	22.1	22.1	22.7	23.4
	8H	17.2	17.8	17.9	18.5	19.2	22.2	22.8	22.9	23.5	24.2
	12H	17.3	17.8	17.9	18.5	19.2	23.2	23.7	23.8	24.3	25.1

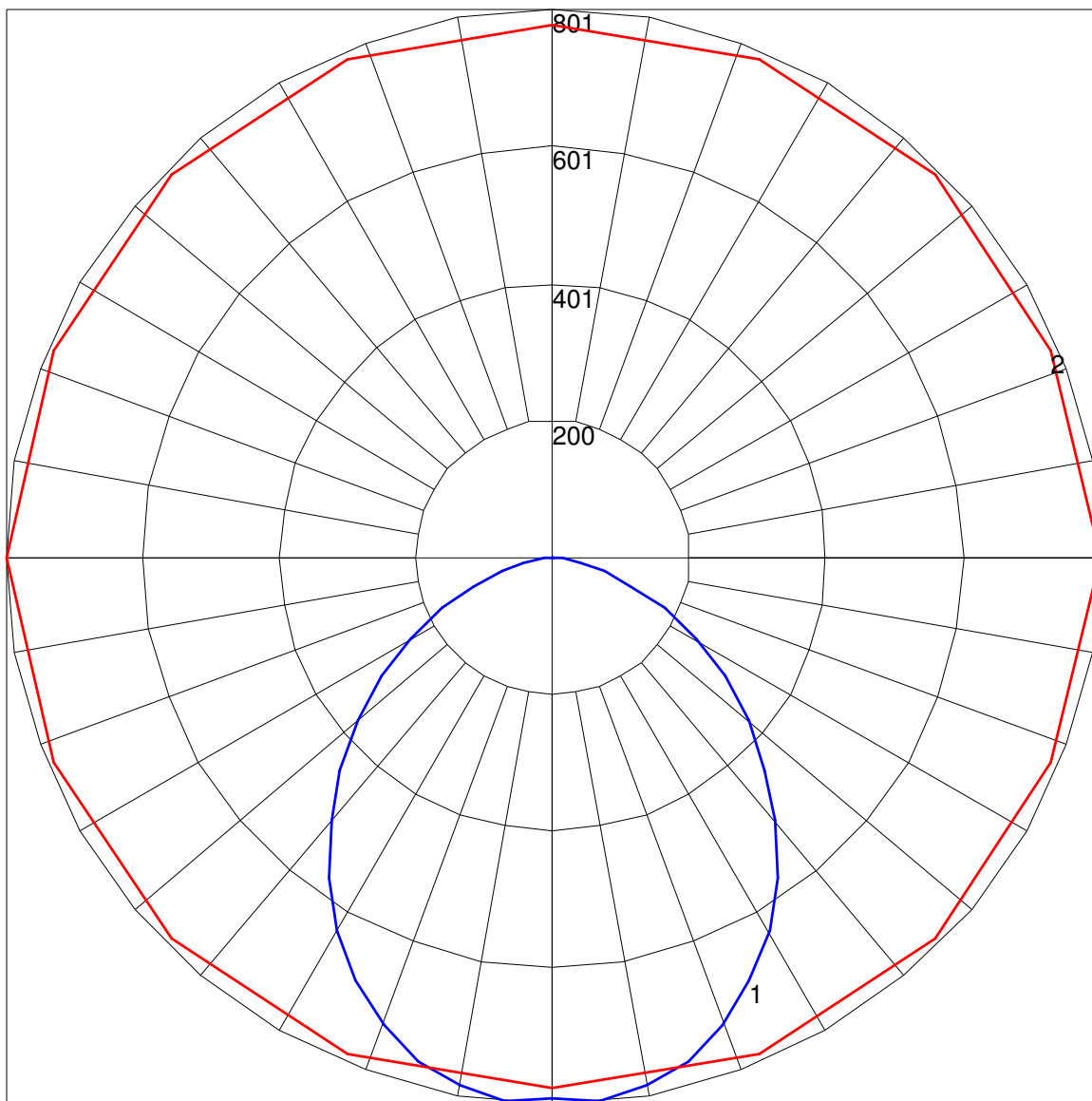
12H	4H	16.8	17.5	17.5	18.2	18.9	19.9	20.6	20.5	21.2	21.9
	6H	17.4	18.0	18.1	18.6	19.4	21.4	22.0	22.1	22.6	23.4
	8H	17.6	18.1	18.2	18.8	19.5	22.3	22.8	23.0	23.5	24.2

Maximum UGR = 25.1

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POLAR GRAPH



Maximum Candela = 801.427 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.)