



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75S-8-L130-840-(L120)-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] 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)-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	12420
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	157
Total Luminaire Watts	79.3
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	18807	15678	14906
55	16018	13321	13542
65	12673	11591	12522
75	8869	9741	11394
85	4241	8704	10420

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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	4190.588	4190.588	4190.588	4190.588	4190.588
5	4226.632	4173.515	4171.617	4162.132	4112.809
10	4154.544	4107.118	4110.912	4099.529	4054.000
15	4038.824	3993.295	4004.677	3993.295	3955.354
20	3845.325	3811.178	3845.325	3828.251	3788.413
25	3606.296	3593.017	3623.369	3621.472	3562.664
30	3342.606	3348.297	3382.444	3382.444	3310.356
35	3020.107	3065.636	3082.710	3088.401	3014.416
40	2669.152	2737.446	2722.270	2752.623	2714.681
45	2325.786	2386.491	2382.697	2437.712	2428.227
50	1974.831	2029.846	2073.478	2166.433	2185.404
55	1614.391	1682.685	1779.435	1917.920	1980.522
60	1274.819	1358.289	1523.333	1694.067	1775.641
65	948.526	1081.320	1288.098	1483.495	1566.965
70	650.689	825.218	1047.173	1259.643	1358.289
75	413.557	580.498	830.909	1043.379	1142.025
80	225.749	386.999	652.586	846.085	937.144
85	72.088	237.132	495.131	667.762	753.130
90	0.000	153.661	377.513	538.763	597.571
95	0.000	140.382	352.852	493.234	527.380
100	0.000	132.794	328.190	449.601	479.954
105	0.000	121.411	307.322	415.454	445.807
110	0.000	113.823	286.455	388.896	419.249
115	0.000	104.338	261.793	364.234	392.690
120	0.000	89.161	235.234	330.087	364.234
125	0.000	73.985	212.470	301.631	331.984
130	0.000	60.706	184.014	269.381	290.249
135	0.000	55.015	147.970	233.337	254.205
140	0.000	45.529	115.720	195.396	216.264
145	0.000	36.044	89.161	151.764	172.632
150	0.000	26.559	68.294	115.720	132.794
155	0.000	20.868	55.015	83.470	96.750
160	0.000	0.000	39.838	60.706	68.294
165	0.000	0.000	26.559	43.632	47.426
170	0.000	0.000	0.000	26.559	28.456
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	1521.27	N.A.	12.20
0-30	3182.14	N.A.	25.60
0-40	5093.98	N.A.	41.00
0-60	8559.67	N.A.	68.90
0-80	10689.23	N.A.	86.10
0-90	11197.73	N.A.	90.20
10-90	10801.78	N.A.	87.00
20-40	3572.7	N.A.	28.80
20-50	5427.04	N.A.	43.70
40-70	4732.44	N.A.	38.10
60-80	2129.56	N.A.	17.10
70-80	862.81	N.A.	6.90
80-90	508.50	N.A.	4.10
90-110	625.69	N.A.	5.00
90-120	854.75	N.A.	6.90
90-130	1023.49	N.A.	8.20
90-150	1190.96	N.A.	9.60
90-180	1222.35	N.A.	9.80
110-180	596.65	N.A.	4.80
0-180	12420.07	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	395.95
10-20	1125.32
20-30	1660.86
30-40	1911.84
40-50	1854.33
50-60	1611.36
60-70	1266.75
70-80	862.81
80-90	508.50
90-100	342.35
100-110	283.34
110-120	229.05
120-130	168.74
130-140	109.36
140-150	58.11
150-160	24.31
160-170	6.71
170-180	0.36

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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	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

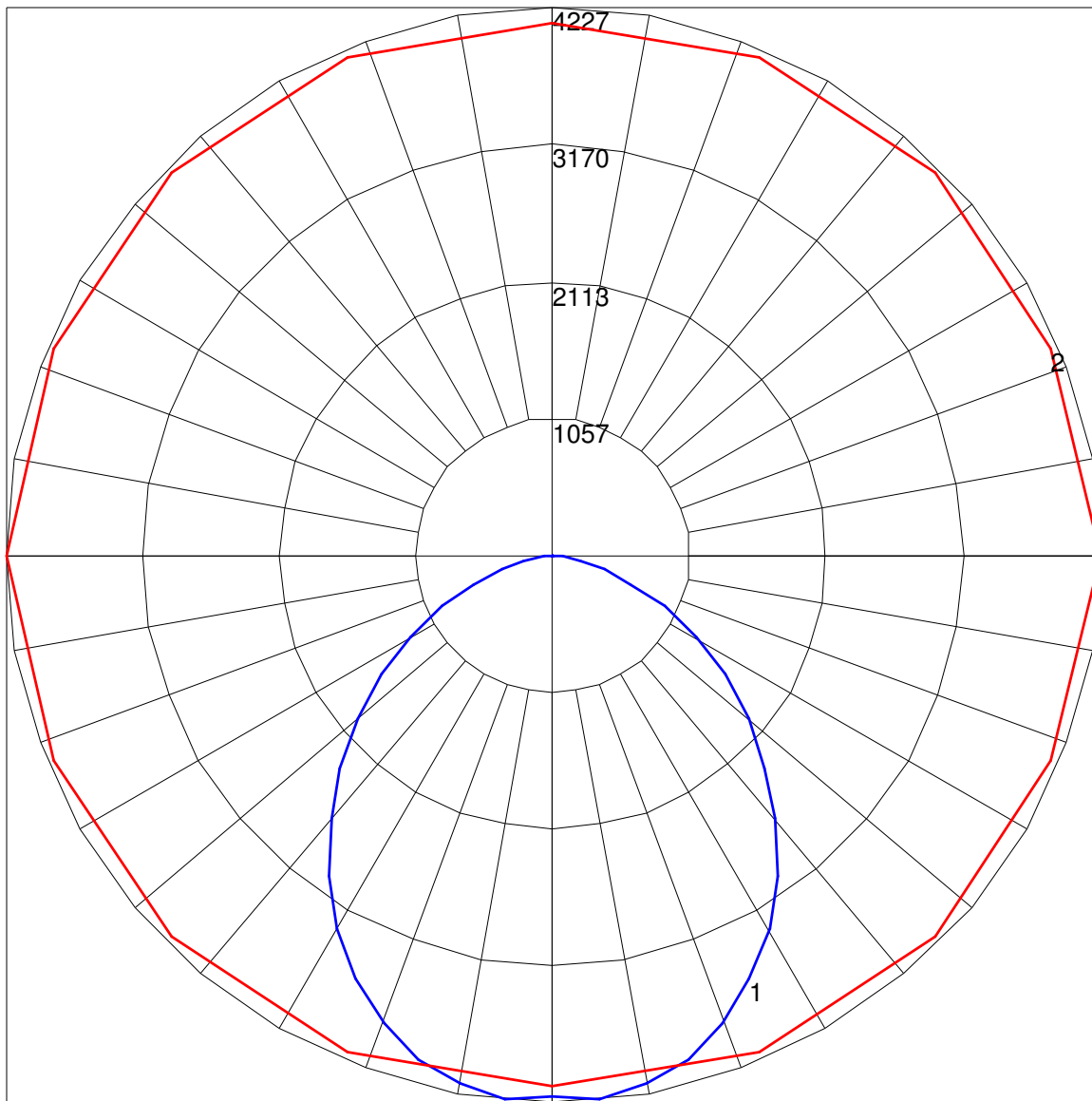
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	19.1	20.5	19.6	21.0	21.5	21.2	22.7	21.8	23.2	23.7
	3H	20.3	21.5	20.8	22.1	22.7	23.7	24.9	24.2	25.5	26.1
	4H	20.6	21.8	21.1	22.3	22.9	24.8	26.0	25.3	26.5	27.1
	6H	20.8	21.9	21.3	22.4	23.1	26.0	27.1	26.5	27.6	28.3
	8H	20.8	21.9	21.4	22.4	23.1	26.5	27.6	27.1	28.2	28.8
	12H	20.8	21.8	21.4	22.4	23.0	27.2	28.2	27.8	28.8	29.5
4H	2H	19.9	21.1	20.4	21.6	22.3	21.6	22.8	22.2	23.4	24.0
	3H	21.3	22.4	21.9	22.9	23.6	24.2	25.3	24.8	25.8	26.5
	4H	21.8	22.7	22.4	23.3	24.0	25.5	26.5	26.1	27.1	27.7
	6H	22.1	22.9	22.7	23.5	24.2	26.9	27.7	27.5	28.3	29.0
	8H	22.1	22.9	22.7	23.5	24.2	27.6	28.4	28.2	29.0	29.7
	12H	22.1	22.8	22.8	23.5	24.2	28.3	29.1	29.0	29.7	30.4
8H	4H	22.4	23.2	23.1	23.8	24.5	25.7	26.5	26.3	27.1	27.8
	6H	22.9	23.6	23.5	24.2	24.9	27.2	27.9	27.9	28.5	29.2
	8H	23.0	23.6	23.7	24.3	25.0	28.0	28.6	28.7	29.3	30.0
	12H	23.1	23.6	23.7	24.3	25.0	29.0	29.5	29.6	30.1	30.9
12H	4H	22.6	23.3	23.3	24.0	24.7	25.7	26.4	26.3	27.0	27.7
	6H	23.2	23.8	23.9	24.4	25.2	27.2	27.8	27.9	28.4	29.2
	8H	23.4	23.9	24.0	24.6	25.3	28.1	28.6	28.8	29.3	30.0

Maximum UGR = 30.9

POLAR GRAPH



Maximum Candela = 4226.632 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.)