



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75S-8-L100-940-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] 10-06-2022

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 8'LED STRIP LUMINAIRE

[MORE] WITH FROSTED ACRYLIC LENS

[LUMCAT] 75S-8-L100-940-DIM-UNV

[LAMPCAT] HLM 90 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	8229
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	125
Total Luminaire Watts	65.9
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	12460	10387	9875
55	10612	8825	8972
65	8396	7679	8296
75	5876	6453	7549
85	2810	5767	6903

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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	2776.342	2776.342	2776.342	2776.342	2776.342
5	2800.222	2765.030	2763.774	2757.489	2724.812
10	2752.462	2721.041	2723.555	2716.014	2685.850
15	2675.795	2645.631	2653.172	2645.631	2620.495
20	2547.598	2524.975	2547.598	2536.287	2509.894
25	2389.238	2380.440	2400.549	2399.292	2360.331
30	2214.538	2218.308	2240.931	2240.931	2193.172
35	2000.877	2031.041	2042.352	2046.123	1997.106
40	1768.363	1813.609	1803.554	1823.663	1798.527
45	1540.876	1581.095	1578.581	1615.029	1608.745
50	1308.362	1344.810	1373.717	1435.302	1447.870
55	1069.564	1114.810	1178.908	1270.657	1312.133
60	844.591	899.892	1009.236	1122.351	1176.395
65	628.416	716.394	853.389	982.843	1038.143
70	431.093	546.722	693.771	834.536	899.892
75	273.989	384.591	550.492	691.258	756.613
80	149.563	256.394	432.350	560.547	620.875
85	47.760	157.104	328.033	442.405	498.962
90	0.000	101.803	250.110	356.940	395.902
95	0.000	93.006	233.771	326.776	349.399
100	0.000	87.978	217.432	297.869	317.978
105	0.000	80.437	203.607	275.246	295.356
110	0.000	75.410	189.782	257.651	277.760
115	0.000	69.126	173.443	241.312	260.164
120	0.000	59.071	155.847	218.689	241.312
125	0.000	49.016	140.765	199.836	219.946
130	0.000	40.219	121.913	178.470	192.295
135	0.000	36.448	98.033	154.590	168.415
140	0.000	30.164	76.667	129.454	143.279
145	0.000	23.880	59.071	100.547	114.372
150	0.000	17.596	45.246	76.667	87.978
155	0.000	13.825	36.448	55.301	64.098
160	0.000	0.000	26.393	40.219	45.246
165	0.000	0.000	17.596	28.907	31.421
170	0.000	0.000	0.000	17.596	18.852
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	1007.87	N.A.	12.20
0-30	2108.22	N.A.	25.60
0-40	3374.85	N.A.	41.00
0-60	5670.94	N.A.	68.90
0-80	7081.81	N.A.	86.10
0-90	7418.7	N.A.	90.20
10-90	7156.38	N.A.	87.00
20-40	2366.98	N.A.	28.80
20-50	3595.51	N.A.	43.70
40-70	3135.33	N.A.	38.10
60-80	1410.87	N.A.	17.10
70-80	571.63	N.A.	6.90
80-90	336.89	N.A.	4.10
90-110	414.53	N.A.	5.00
90-120	566.29	N.A.	6.90
90-130	678.08	N.A.	8.20
90-150	789.03	N.A.	9.60
90-180	809.83	N.A.	9.80
110-180	395.29	N.A.	4.80
0-180	8228.53	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	262.33
10-20	745.55
20-30	1100.35
30-40	1266.63
40-50	1228.53
50-60	1067.56
60-70	839.25
70-80	571.63
80-90	336.89
90-100	226.81
100-110	187.72
110-120	151.75
120-130	111.80
130-140	72.45
140-150	38.50
150-160	16.11
160-170	4.44
170-180	0.24

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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

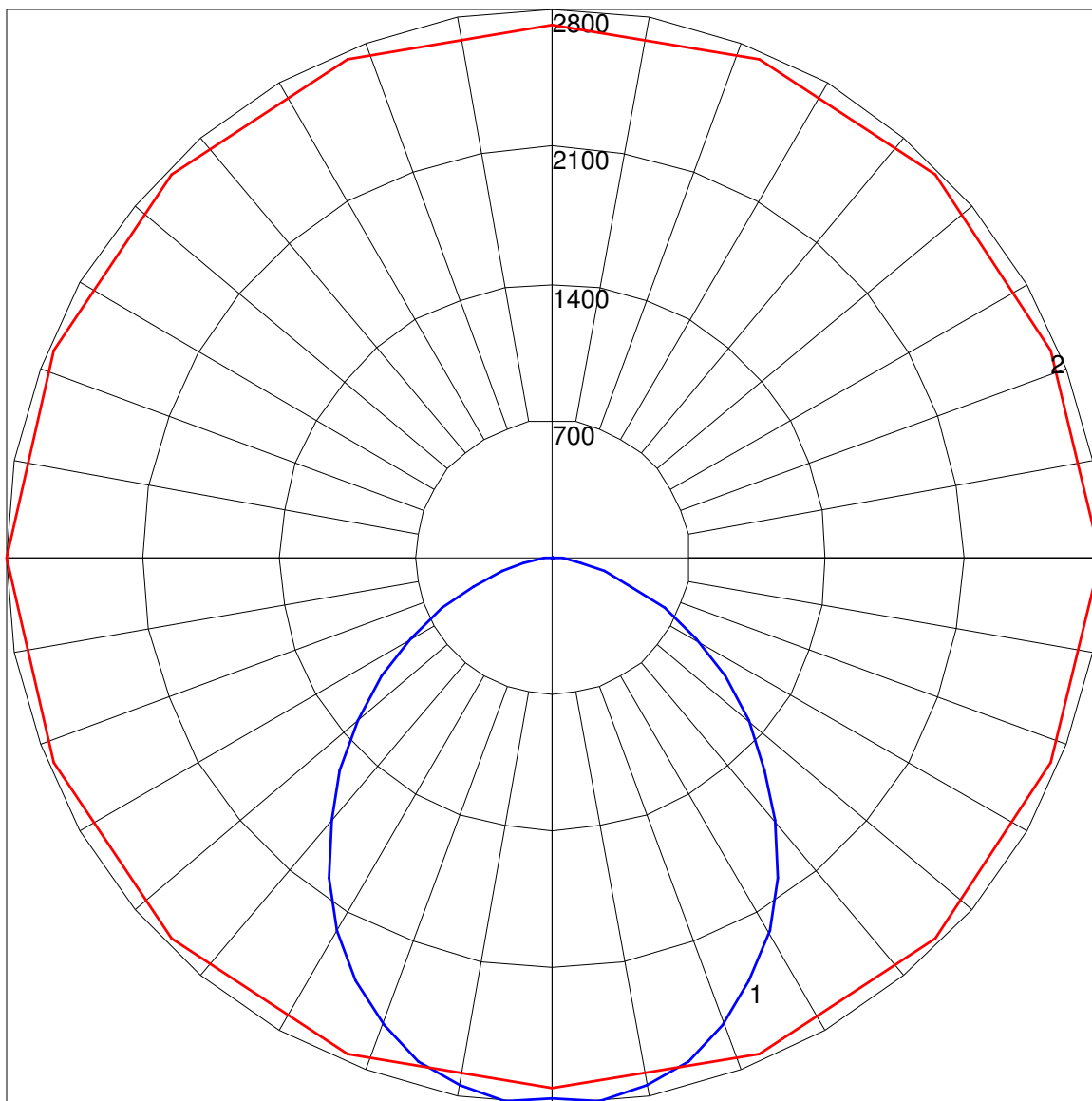
Reflectances

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	17.6	19.0	18.1	19.5	20.0	19.7	21.2	20.3	21.7	22.2
	3H	18.8	20.0	19.3	20.6	21.2	22.2	23.4	22.7	24.0	24.6
	4H	19.1	20.3	19.6	20.8	21.4	23.3	24.5	23.8	25.0	25.6
	6H	19.3	20.4	19.8	20.9	21.6	24.5	25.6	25.0	26.1	26.8
	8H	19.3	20.4	19.9	20.9	21.6	25.0	26.1	25.6	26.7	27.3
	12H	19.3	20.3	19.9	20.9	21.5	25.7	26.7	26.3	27.3	28.0
4H	2H	18.4	19.6	18.9	20.1	20.8	20.1	21.3	20.7	21.9	22.5
	3H	19.8	20.9	20.4	21.4	22.1	22.7	23.8	23.3	24.3	25.0
	4H	20.3	21.2	20.9	21.8	22.5	24.0	25.0	24.6	25.6	26.2
	6H	20.6	21.4	21.2	22.0	22.7	25.4	26.2	26.0	26.8	27.5
	8H	20.6	21.4	21.2	22.0	22.7	26.1	26.9	26.7	27.5	28.2
	12H	20.6	21.3	21.3	22.0	22.7	26.8	27.6	27.5	28.2	28.9
8H	4H	20.9	21.7	21.6	22.3	23.0	24.2	25.0	24.8	25.6	26.3
	6H	21.4	22.1	22.0	22.7	23.4	25.7	26.4	26.4	27.0	27.7
	8H	21.5	22.1	22.2	22.8	23.5	26.5	27.1	27.2	27.8	28.5
	12H	21.6	22.1	22.2	22.8	23.5	27.5	28.0	28.1	28.6	29.4
12H	4H	21.1	21.8	21.8	22.5	23.2	24.2	24.9	24.8	25.5	26.2
	6H	21.7	22.3	22.4	22.9	23.7	25.7	26.3	26.4	26.9	27.7
	8H	21.9	22.4	22.5	23.1	23.8	26.6	27.1	27.3	27.8	28.5

Maximum UGR = 29.4

POLAR GRAPH



Maximum Candela = 2800.222 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.)