



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75S-8-L60-935-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] 29-SEP-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-L60-935-DIM-UNV

[LAMPCAT]HLM 90 CRI, 3500K CCT

[_SEARCH_SOURCE] 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	4937
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	137
Total Luminaire Watts	36.1
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	8985	7215	6780
55	7653	6060	6076
65	6055	5191	5519
75	4237	4258	4896
85	2026	3636	4292

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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	1665.775	1665.775	1665.775	1665.775	1665.775
5	1680.103	1658.989	1658.235	1654.464	1634.858
10	1651.448	1632.596	1634.104	1629.579	1611.481
15	1605.449	1587.351	1591.875	1587.351	1572.269
20	1528.532	1514.958	1528.532	1521.745	1505.909
25	1433.517	1428.238	1440.304	1439.550	1416.173
30	1328.699	1330.961	1344.535	1344.535	1315.880
35	1200.505	1218.603	1225.389	1227.652	1198.242
40	1060.999	1088.146	1082.113	1094.178	1079.097
45	924.509	948.640	947.132	969.000	965.230
50	785.003	806.872	824.216	861.166	868.707
55	641.727	668.874	707.332	762.381	787.266
60	506.746	539.925	605.531	673.399	705.824
65	377.043	429.829	512.024	589.695	622.875
70	258.651	328.027	416.255	500.713	539.925
75	164.391	230.750	330.290	414.747	453.960
80	89.736	153.833	259.406	336.322	372.518
85	28.655	94.261	196.816	265.438	299.372
90	0.000	61.081	150.063	214.160	237.537
95	0.000	55.802	140.260	196.062	209.636
100	0.000	52.786	130.457	178.718	190.784
105	0.000	48.261	122.162	165.145	177.210
110	0.000	45.245	113.867	154.588	166.653
115	0.000	41.475	104.064	144.784	156.096
120	0.000	35.442	93.507	131.211	144.784
125	0.000	29.409	84.458	119.900	131.965
130	0.000	24.131	73.146	107.080	115.375
135	0.000	21.868	58.819	92.753	101.047
140	0.000	18.098	45.999	77.671	85.966
145	0.000	14.328	35.442	60.327	68.622
150	0.000	10.557	27.147	45.999	52.786
155	0.000	8.295	21.868	33.180	38.458
160	0.000	0.000	15.836	24.131	27.147
165	0.000	0.000	10.557	17.344	18.852
170	0.000	0.000	0.000	10.557	11.311
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	604.71	N.A.	12.20
0-30	1264.91	N.A.	25.60
0-40	2024.88	N.A.	41.00
0-60	3402.5	N.A.	68.90
0-80	4249.01	N.A.	86.10
0-90	4451.14	N.A.	90.20
10-90	4293.75	N.A.	87.00
20-40	1420.16	N.A.	28.80
20-50	2157.27	N.A.	43.70
40-70	1881.16	N.A.	38.10
60-80	846.51	N.A.	17.10
70-80	342.97	N.A.	6.90
80-90	202.13	N.A.	4.10
90-110	248.72	N.A.	5.00
90-120	339.77	N.A.	6.90
90-130	406.84	N.A.	8.20
90-150	473.41	N.A.	9.60
90-180	485.89	N.A.	9.80
110-180	237.17	N.A.	4.80
0-180	4937.03	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	157.39
10-20	447.32
20-30	660.20
30-40	759.96
40-50	737.10
50-60	640.52
60-70	503.54
70-80	342.97
80-90	202.13
90-100	136.09
100-110	112.63
110-120	91.05
120-130	67.08
130-140	43.47
140-150	23.10
150-160	9.66
160-170	2.67
170-180	0.14

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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	99	99	99	99	96	96	96	96	90	90	90	84	84	84	79	79	79	77
1	90	85	82	78	87	83	79	76	77	75	72	73	70	68	68	67	65	63
2	82	74	68	63	79	72	67	62	68	63	59	64	60	57	60	57	54	52
3	74	65	58	53	72	63	57	52	60	54	50	56	52	48	53	49	46	44
4	68	58	51	45	66	56	49	44	53	47	43	50	45	41	47	43	40	38
5	63	52	44	39	60	50	43	38	48	42	37	45	40	36	43	38	35	33
6	58	47	39	34	56	46	39	33	43	37	33	41	36	32	39	34	31	29
7	54	43	35	30	52	41	35	30	39	33	29	37	32	28	36	31	27	26
8	50	39	32	27	48	38	31	27	36	30	26	34	29	25	33	28	25	23
9	47	36	29	24	45	35	28	24	33	27	23	32	27	23	30	26	22	21
10	44	33	26	22	43	32	26	22	31	25	21	29	24	21	28	24	20	19

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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	16.8	18.2	17.3	18.7	19.3	19.1	20.5	19.6	21.0	21.6
	3H	18.0	19.2	18.5	19.8	20.3	21.5	22.8	22.0	23.3	23.9
	4H	18.3	19.5	18.8	20.0	20.6	22.6	23.8	23.2	24.4	25.0
	6H	18.4	19.6	19.0	20.1	20.7	23.8	24.9	24.4	25.5	26.1
	8H	18.4	19.5	19.0	20.1	20.7	24.4	25.5	25.0	26.0	26.7
	12H	18.4	19.5	19.0	20.0	20.7	25.0	26.1	25.6	26.6	27.3

UGR Viewed Endwise

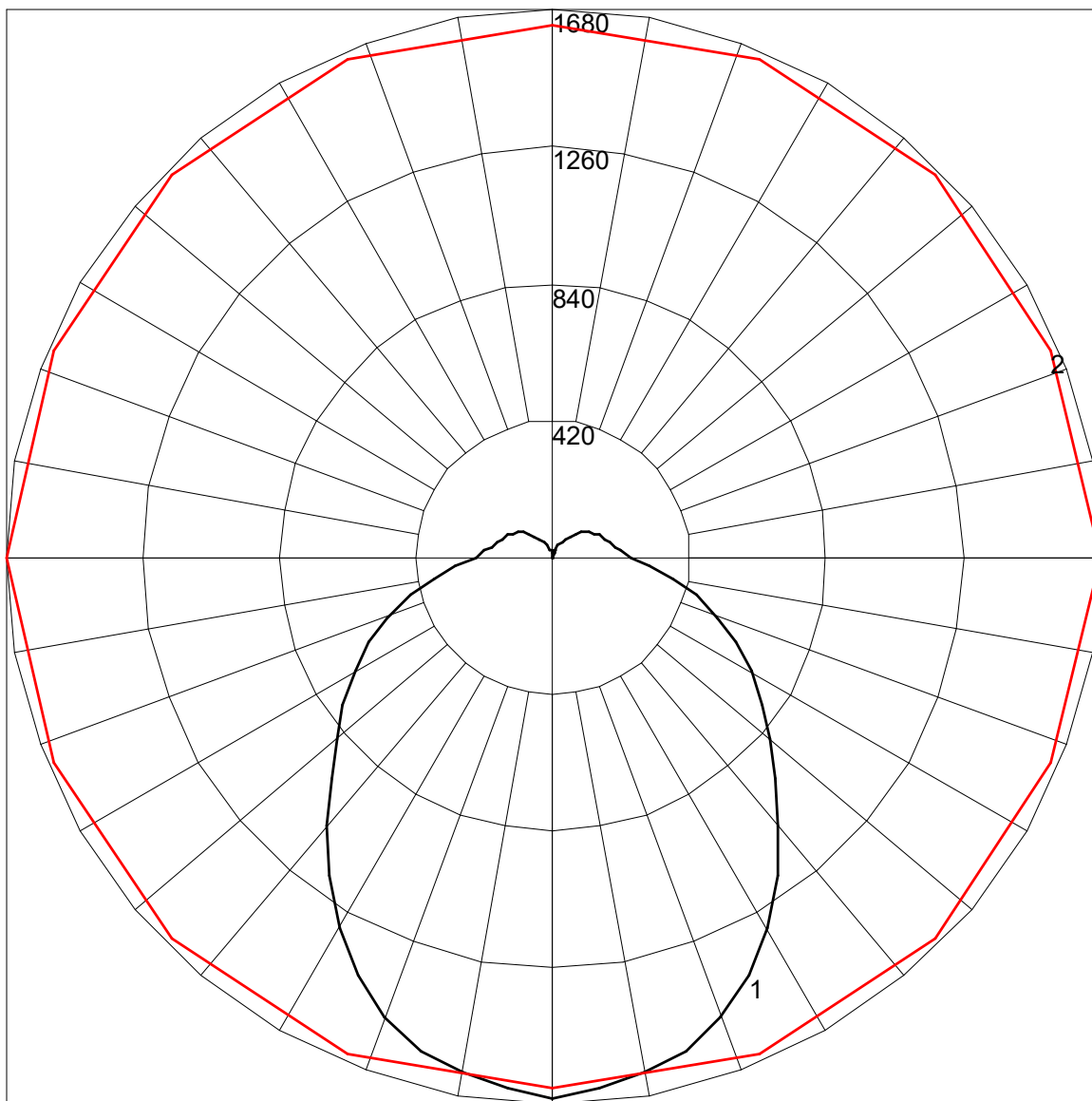
4H	2H	17.6	18.8	18.2	19.4	20.0	19.4	20.6	20.0	21.2	21.8
	3H	19.0	20.1	19.6	20.6	21.3	22.0	23.1	22.6	23.7	24.3
	4H	19.5	20.4	20.1	21.0	21.7	23.4	24.3	23.9	24.9	25.5
	6H	19.7	20.6	20.3	21.2	21.8	24.7	25.5	25.3	26.1	26.8
	8H	19.8	20.6	20.4	21.2	21.9	25.4	26.2	26.0	26.8	27.5
	12H	19.8	20.5	20.4	21.1	21.8	26.2	26.9	26.8	27.5	28.2

8H	4H	20.1	20.9	20.7	21.5	22.2	23.5	24.3	24.1	24.9	25.6
	6H	20.6	21.2	21.2	21.9	22.5	25.0	25.6	25.6	26.3	27.0
	8H	20.7	21.3	21.3	21.9	22.6	25.8	26.4	26.5	27.1	27.8
	12H	20.7	21.3	21.4	21.9	22.7	26.7	27.3	27.4	27.9	28.7

12H	4H	20.3	21.0	20.9	21.6	22.3	23.5	24.2	24.1	24.8	25.5
	6H	20.8	21.4	21.5	22.1	22.8	25.0	25.6	25.7	26.2	27.0
	8H	21.0	21.6	21.7	22.2	23.0	25.9	26.4	26.5	27.0	27.8

Maximum UGR = 28.7

POLAR GRAPH



Maximum Candela = 1680.103 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.)