



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75L-8-L40-835-DMA_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 17956.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 22-JUL-2021

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 89" LED STRIP SURFACE MOUNT LUMINAIRE

[MORE] WHITE REFL w/.104"THK FROSTED ACRYLIC LENS

[LUMCAT] 75L-8-L40-835-DMA-DIM-UNV

[_SEARCH_SOURCETYPE]LED

[_SEARCH_APPLICATION]INDOOR,COMMERCIAL,INDUSTRIAL,DIRECT,LINEAR,MANUFACTURING,WAREHOUSE

[_SEARCH_MOUNTING]CEILING,SURFACE,SUSPENDED,WALL

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3975
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	134
Total Luminaire Watts	29.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.10
Spacing Criterion (Diagonal)	1.24
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	7.44 ft
Luminous Width (90-270)	0.17 ft
Luminous Height	0.00 ft



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	12730	11187	9716
55	10981	9335	7915
65	9246	7524	6294
75	7264	5724	4820
85	4970	3579	3380

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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	1770.781	1770.781	1770.781	1770.781	1770.781
5	1806.818	1766.777	1760.771	1744.755	1730.741
10	1772.783	1741.752	1727.738	1713.724	1692.703
15	1718.729	1693.704	1670.681	1654.665	1625.635
20	1646.656	1622.632	1592.602	1566.576	1533.543
25	1554.564	1529.539	1486.495	1456.465	1412.421
30	1448.457	1418.427	1361.369	1326.334	1270.278
35	1325.333	1292.300	1223.231	1173.180	1121.128
40	1186.193	1151.158	1077.083	1015.021	960.967
45	1040.046	997.003	913.919	861.867	793.799
50	885.891	848.854	761.766	704.709	651.656
55	727.732	704.709	618.622	562.566	524.528
60	581.585	561.565	487.490	442.445	410.413
65	451.454	427.430	367.370	337.339	307.309
70	331.333	301.303	260.262	235.237	217.219
75	217.219	192.193	171.172	148.149	144.145
80	125.126	104.105	93.094	81.082	83.084
85	50.050	36.036	36.036	30.030	34.034
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	637.97	N.A.	16.00
0-30	1322.57	N.A.	33.30
0-40	2089.54	N.A.	52.60
0-60	3366.56	N.A.	84.70
0-80	3929.8	N.A.	98.90
0-90	3975.43	N.A.	100.00
10-90	3808.4	N.A.	95.80
20-40	1451.57	N.A.	36.50
20-50	2164.37	N.A.	54.40
40-70	1653.15	N.A.	41.60
60-80	563.24	N.A.	14.20
70-80	187.10	N.A.	4.70
80-90	45.63	N.A.	1.10
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	3975.43	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	167.03
10-20	470.94
20-30	684.59
30-40	766.98
40-50	712.81
50-60	564.21
60-70	376.14
70-80	187.10
80-90	45.63
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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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	231	231	231	231	226	226	226	226	216	216	216	207	207	207	198	198	198	194
1	214	205	198	191	208	201	194	188	193	187	182	185	181	176	178	175	171	167
2	196	181	169	159	191	178	166	157	171	161	153	165	157	150	159	152	147	143
3	180	161	146	134	175	158	144	133	152	141	131	147	137	129	142	134	127	123
4	166	144	128	116	161	141	126	115	137	124	113	132	121	112	128	118	110	106
5	153	130	113	101	149	127	112	100	123	110	99	120	108	98	116	106	97	93
6	142	117	101	89	138	116	100	89	112	98	88	109	97	87	106	95	86	83
7	132	107	91	79	129	105	90	79	103	89	79	100	87	78	97	86	78	74
8	123	98	82	71	120	97	82	71	94	81	71	92	79	70	90	78	70	66
9	115	90	75	65	113	89	75	65	87	74	64	85	73	64	83	72	64	60
10	108	84	69	59	106	83	69	59	81	68	59	79	67	58	77	66	58	55

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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	20.4	21.9	20.8	22.3	22.6	18.7	20.2	19.0	20.5	20.8
	3H	21.9	23.3	22.3	23.6	24.0	20.0	21.4	20.3	21.7	22.0
	4H	22.4	23.7	22.8	24.1	24.4	20.4	21.7	20.8	22.0	22.4
	6H	22.8	24.0	23.2	24.3	24.7	20.7	21.9	21.1	22.3	22.7
	8H	22.9	24.0	23.3	24.4	24.8	20.8	21.9	21.2	22.3	22.7
	12H	22.9	24.0	23.4	24.4	24.8	20.8	21.9	21.3	22.3	22.7

UGR Viewed Endwise

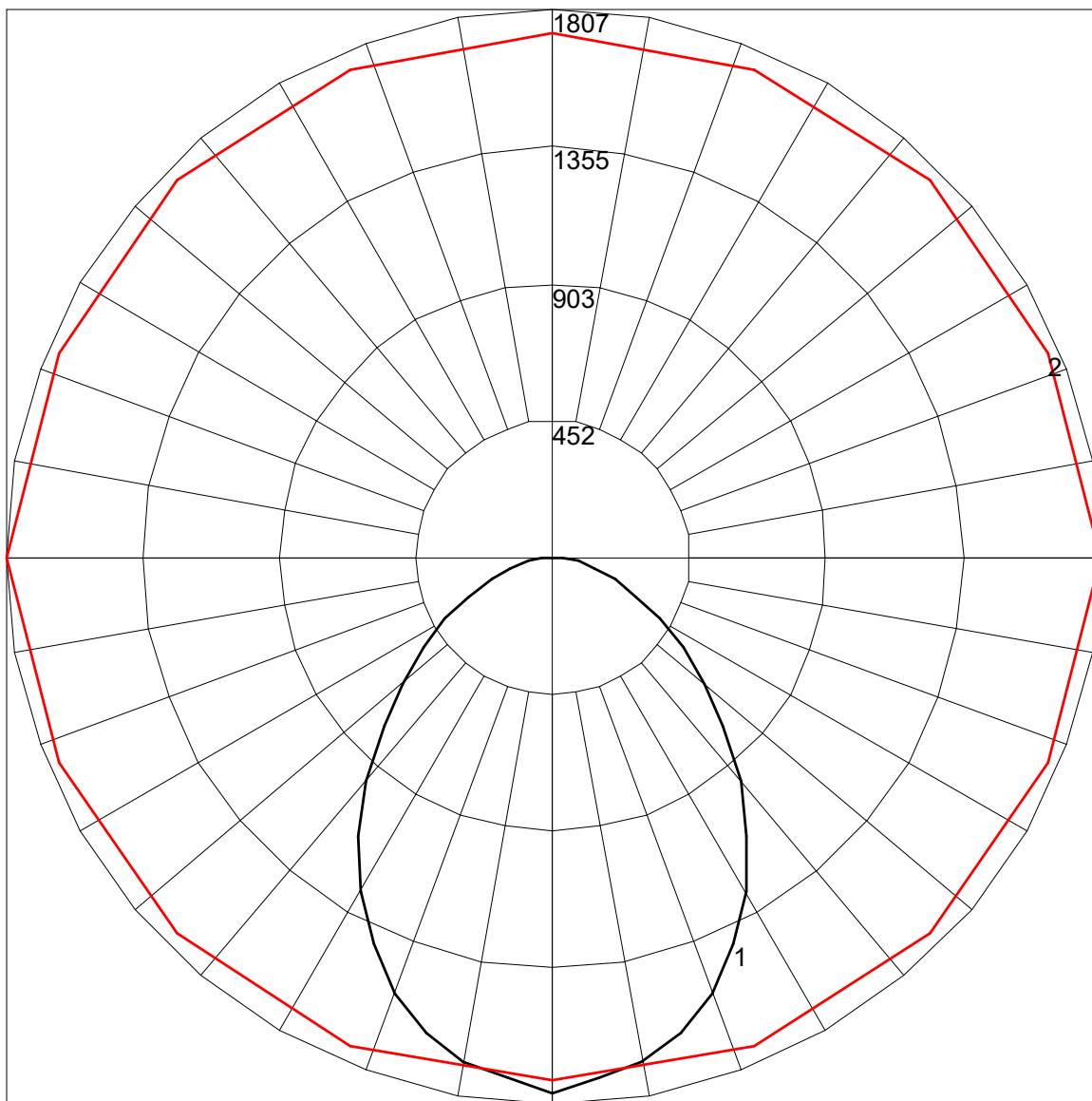
4H	2H	20.7	22.0	21.1	22.4	22.8	19.3	20.6	19.7	20.9	21.3
	3H	22.4	23.5	22.8	23.9	24.3	20.8	21.9	21.2	22.3	22.7
	4H	23.1	24.0	23.5	24.4	24.9	21.3	22.3	21.8	22.7	23.1
	6H	23.5	24.4	24.0	24.8	25.3	21.7	22.5	22.2	23.0	23.5
	8H	23.7	24.4	24.1	24.9	25.4	21.8	22.6	22.3	23.1	23.5
	12H	23.8	24.5	24.2	24.9	25.4	21.9	22.6	22.4	23.1	23.6

8H	4H	23.2	24.0	23.6	24.4	24.9	21.6	22.4	22.1	22.8	23.3
	6H	23.7	24.4	24.2	24.9	25.3	22.1	22.7	22.6	23.2	23.7
	8H	23.9	24.5	24.4	25.0	25.5	22.2	22.8	22.8	23.3	23.8
	12H	24.1	24.6	24.6	25.1	25.6	22.4	22.9	22.9	23.4	23.9

12H	4H	23.2	23.9	23.7	24.4	24.8	21.6	22.3	22.1	22.8	23.3
	6H	23.7	24.3	24.3	24.8	25.3	22.1	22.7	22.7	23.2	23.7
	8H	24.0	24.5	24.5	25.0	25.5	22.3	22.8	22.8	23.3	23.9

Maximum UGR = 25.6

POLAR GRAPH



Maximum Candela = 1806.818 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.)