



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75L-8-L76-835-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-L76-835-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	7677
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	127
Total Luminaire Watts	60.3
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	24583	21602	18763
55	21206	18026	15284
65	17854	14529	12153
75	14027	11054	9308
85	9598	6911	6527

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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	3419.502	3419.502	3419.502	3419.502	3419.502
5	3489.090	3411.770	3400.172	3369.243	3342.181
10	3423.368	3363.444	3336.382	3309.320	3268.727
15	3318.985	3270.660	3226.200	3195.272	3139.215
20	3179.808	3133.416	3075.425	3025.167	2961.378
25	3001.971	2953.645	2870.526	2812.535	2727.483
30	2797.071	2739.081	2628.899	2561.244	2452.995
35	2559.311	2495.521	2362.143	2265.492	2164.976
40	2290.622	2222.966	2079.923	1960.076	1855.693
45	2008.402	1925.282	1764.842	1664.325	1532.880
50	1710.717	1639.196	1471.024	1360.842	1258.392
55	1405.301	1360.842	1194.603	1086.354	1012.899
60	1123.081	1084.421	941.378	854.392	792.536
65	871.789	825.397	709.416	651.426	593.435
70	639.828	581.837	502.584	454.258	419.464
75	419.464	371.139	330.545	286.086	278.354
80	241.627	201.033	179.770	156.574	160.440
85	96.651	69.589	69.589	57.990	65.722
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1231.97	N.A.	16.00
0-30	2553.97	N.A.	33.30
0-40	4035.05	N.A.	52.60
0-60	6501.06	N.A.	84.70
0-80	7588.72	N.A.	98.90
0-90	7676.84	N.A.	100.00
10-90	7354.28	N.A.	95.80
20-40	2803.08	N.A.	36.50
20-50	4179.56	N.A.	54.40
40-70	3192.35	N.A.	41.60
60-80	1087.66	N.A.	14.20
70-80	361.31	N.A.	4.70
80-90	88.12	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	7676.84	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	322.56
10-20	909.42
20-30	1322.00
30-40	1481.08
40-50	1376.48
50-60	1089.53
60-70	726.35
70-80	361.31
80-90	88.12
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	230	230	230	230	225	225	225	225	215	215	215	205	205	205	197	197	197	193
1	212	204	196	190	207	199	193	187	191	186	181	184	179	175	177	173	170	166
2	195	180	168	158	190	176	165	156	170	160	152	163	156	149	158	151	146	142
3	179	160	145	134	174	157	143	132	151	140	130	146	136	128	141	133	126	122
4	165	143	127	115	160	140	126	114	136	123	113	131	120	111	127	118	110	106
5	152	129	112	100	148	127	111	100	123	109	99	119	107	98	115	105	97	93
6	141	117	100	89	137	115	99	88	111	98	87	108	96	87	105	94	86	82
7	131	106	90	79	128	105	90	79	102	88	78	99	87	78	97	85	77	73
8	122	97	82	71	120	96	81	71	94	80	70	91	79	70	89	78	70	66
9	115	90	75	64	112	89	74	64	87	73	64	84	72	64	83	71	63	60
10	108	83	68	59	105	82	68	59	80	67	58	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

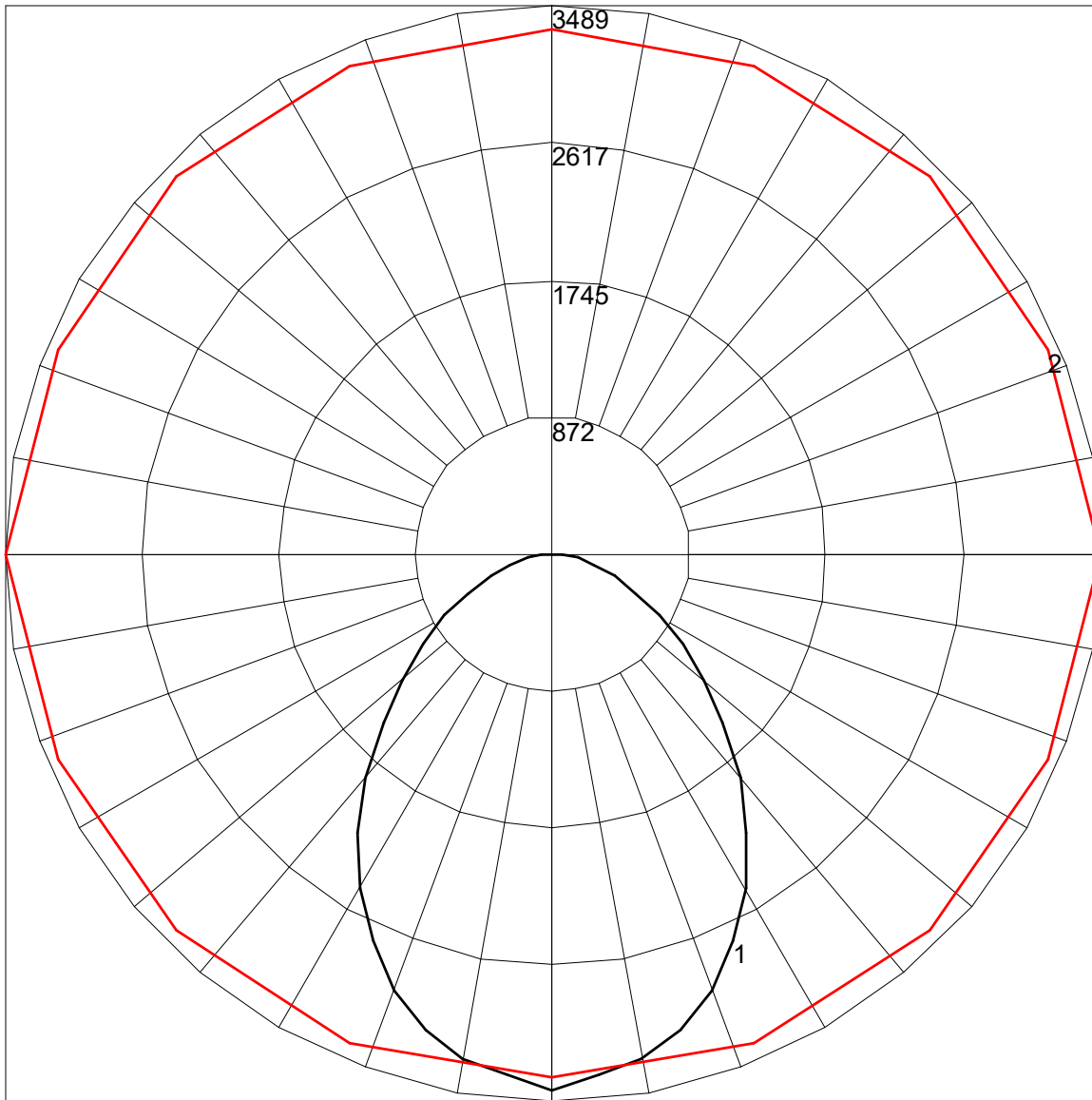
X=2H	Y=2H	20.3	21.8	20.7	22.1	22.4	18.5	20.1	18.9	20.4	20.7
	3H	21.8	23.1	22.1	23.5	23.8	19.8	21.2	20.2	21.5	21.9
	4H	22.3	23.6	22.7	23.9	24.3	20.3	21.6	20.7	21.9	22.3
	6H	22.6	23.8	23.0	24.2	24.6	20.6	21.8	21.0	22.1	22.5
	8H	22.8	23.9	23.2	24.3	24.7	20.7	21.8	21.1	22.2	22.6
	12H	22.8	23.9	23.2	24.3	24.7	20.7	21.8	21.1	22.2	22.6

UGR Viewed Endwise

4H	2H	20.6	21.9	21.0	22.3	22.6	19.2	20.5	19.6	20.8	21.2
	3H	22.3	23.4	22.7	23.8	24.2	20.7	21.8	21.1	22.2	22.6
	4H	22.9	23.9	23.3	24.3	24.7	21.2	22.2	21.6	22.6	23.0
	6H	23.4	24.2	23.8	24.7	25.1	21.6	22.4	22.0	22.9	23.3
	8H	23.5	24.3	24.0	24.8	25.2	21.7	22.5	22.2	22.9	23.4
	12H	23.6	24.3	24.1	24.8	25.3	21.8	22.5	22.3	23.0	23.4
8H	4H	23.0	23.8	23.5	24.3	24.7	21.5	22.3	21.9	22.7	23.2
	6H	23.6	24.2	24.1	24.7	25.2	21.9	22.6	22.4	23.1	23.6
	8H	23.8	24.4	24.3	24.9	25.4	22.1	22.7	22.6	23.2	23.7
	12H	23.9	24.4	24.4	24.9	25.5	22.2	22.7	22.7	23.2	23.8
12H	4H	23.0	23.7	23.5	24.2	24.7	21.5	22.2	22.0	22.7	23.2
	6H	23.6	24.2	24.1	24.7	25.2	22.0	22.6	22.5	23.0	23.6
	8H	23.8	24.3	24.3	24.8	25.4	22.2	22.7	22.7	23.2	23.8

Maximum UGR = 25.5

POLAR GRAPH



Maximum Candela = 3489.09 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.)