



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75L-8-L100-835-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-L100-835-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	10129
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	124
Total Luminaire Watts	81.5
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	32436	28503	24756
55	27980	23785	20167
65	23557	19170	16036
75	18508	14585	12282
85	12664	9118	8612

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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	4511.819	4511.819	4511.819	4511.819	4511.819
5	4603.636	4501.617	4486.314	4445.506	4409.799
10	4516.920	4437.855	4402.148	4366.441	4312.880
15	4379.193	4315.431	4256.770	4215.962	4141.998
20	4195.558	4134.346	4057.831	3991.519	3907.352
25	3960.913	3897.150	3787.479	3710.965	3598.743
30	3690.561	3614.046	3468.668	3379.401	3236.573
35	3376.850	3292.684	3116.700	2989.176	2856.550
40	3022.332	2933.065	2744.328	2586.198	2448.471
45	2649.960	2540.289	2328.598	2195.973	2022.539
50	2257.185	2162.816	1940.924	1795.546	1660.370
55	1854.207	1795.546	1576.203	1433.376	1336.457
60	1481.835	1430.826	1242.089	1127.317	1045.701
65	1150.271	1089.060	936.030	859.515	783.001
70	844.213	767.698	663.128	599.365	553.457
75	553.457	489.694	436.134	377.473	367.271
80	318.811	265.251	237.196	206.590	211.691
85	127.525	91.818	91.818	76.515	86.717
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1625.51	N.A.	16.00
0-30	3369.8	N.A.	33.30
0-40	5324.00	N.A.	52.60
0-60	8577.74	N.A.	84.70
0-80	10012.84	N.A.	98.90
0-90	10129.11	N.A.	100.00
10-90	9703.52	N.A.	95.80
20-40	3698.49	N.A.	36.50
20-50	5514.67	N.A.	54.40
40-70	4212.11	N.A.	41.60
60-80	1435.1	N.A.	14.20
70-80	476.73	N.A.	4.70
80-90	116.27	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	10129.11	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	425.59
10-20	1199.92
20-30	1744.29
30-40	1954.2
40-50	1816.18
50-60	1437.56
60-70	958.37
70-80	476.73
80-90	116.27
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	303	303	303	303	296	296	296	296	283	283	283	271	271	271	260	260	260	255
1	280	269	259	250	273	263	254	246	252	245	238	243	237	231	234	229	224	219
2	257	238	222	208	250	233	218	206	224	212	201	216	205	196	208	200	192	187
3	236	211	192	176	230	207	189	175	200	184	172	193	180	169	186	175	166	161
4	217	189	168	152	212	185	166	151	179	162	149	173	159	147	168	155	145	139
5	201	170	148	132	195	167	147	132	162	144	130	157	141	129	152	139	128	122
6	186	154	132	117	181	152	131	116	147	129	115	143	127	114	139	125	113	108
7	173	140	119	104	169	138	118	104	134	116	103	131	115	102	127	113	102	97
8	162	129	108	94	158	127	107	93	124	106	93	120	104	92	118	103	92	87
9	151	119	98	85	148	117	98	85	114	97	84	111	95	84	109	94	83	79
10	142	110	90	77	139	108	90	77	106	89	77	104	88	77	101	87	76	72

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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

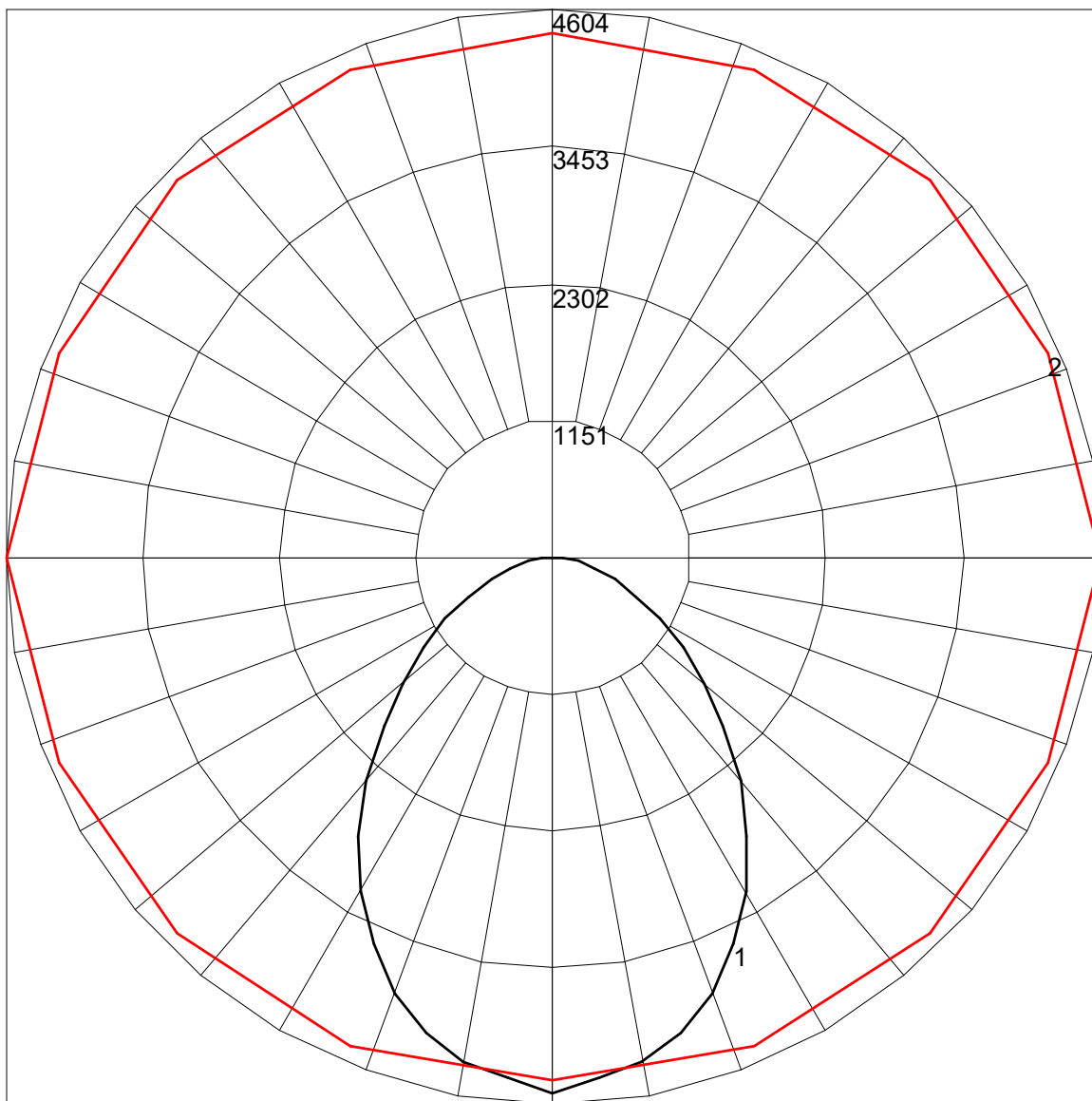
X=2H	Y=2H	20.3	21.8	20.7	22.1	22.4	18.5	20.1	18.9	20.4	20.7
	3H	21.8	23.1	22.1	23.5	23.8	19.8	21.2	20.2	21.5	21.9
	4H	22.3	23.6	22.7	23.9	24.3	20.3	21.6	20.7	21.9	22.3
	6H	22.6	23.8	23.0	24.2	24.6	20.6	21.8	21.0	22.1	22.5
	8H	22.8	23.9	23.2	24.3	24.7	20.7	21.8	21.1	22.2	22.6
	12H	22.8	23.9	23.2	24.3	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 = 4603.636 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.)