



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75L-8-L100-835-A12125_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 17755.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUE DATE] 22-JUL-2021

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 89" LED SURFACE MOUNT LUMINAIRE

[MORE] WHITE REFLECTOR w/CLEAR PRISMATIC LENS

[LUMCAT] 75L-8-L100-835-AF12125-DIM-UNV

[_SEARCH_SOURCE TYPE] 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	11656
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	143
Total Luminaire Watts	81.5
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.16
Spacing Criterion (Diagonal)	1.22
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	38869	30053	24043
55	31122	21062	17604
65	22003	14079	14689
75	16720	10749	13734
85	17142	12709	14482

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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	5615.468	5615.468	5615.468	5615.468	5615.468
5	5710.490	5609.338	5578.686	5557.229	5541.903
10	5636.925	5548.034	5526.577	5502.056	5474.469
15	5526.577	5428.490	5382.512	5410.099	5367.186
20	5348.795	5253.773	5213.926	5229.252	5213.926
25	5091.317	5017.752	4962.578	4901.274	4892.078
30	4809.318	4714.296	4545.709	4410.840	4315.819
35	4441.492	4303.558	4012.363	3665.994	3380.929
40	3898.950	3770.211	3267.516	2734.169	2537.996
45	3270.581	3190.886	2528.800	2108.866	2023.040
50	2672.865	2537.996	1924.953	1649.084	1572.454
55	2124.192	1845.258	1437.584	1262.867	1201.563
60	1569.389	1262.867	1060.563	941.020	937.955
65	1106.542	879.716	708.064	711.129	738.716
70	760.173	594.651	475.108	554.803	567.064
75	514.956	407.673	331.043	404.608	422.999
80	361.695	291.195	257.478	282.000	291.195
85	177.782	165.521	131.804	150.195	150.195
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2060.22	N.A.	17.70
0-30	4336.97	N.A.	37.20
0-40	6798.06	N.A.	58.30
0-60	10234.42	N.A.	87.80
0-80	11493.71	N.A.	98.60
0-90	11655.71	N.A.	100.00
10-90	11123.71	N.A.	95.40
20-40	4737.85	N.A.	40.60
20-50	6769.22	N.A.	58.10
40-70	4255.51	N.A.	36.50
60-80	1259.29	N.A.	10.80
70-80	440.14	N.A.	3.80
80-90	162.00	N.A.	1.40
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	11655.71	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	532.00
10-20	1528.22
20-30	2276.75
30-40	2461.09
40-50	2031.38
50-60	1404.97
60-70	819.16
70-80	440.14
80-90	162.00
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	281	271	261	253	274	265	256	249	254	247	241	244	239	234	235	231	227	222
2	259	241	226	213	253	236	222	211	228	216	206	219	210	201	212	204	197	192
3	239	216	197	183	233	212	195	181	205	190	178	198	185	175	191	181	172	167
4	221	194	174	159	216	191	172	158	185	169	156	179	165	154	174	162	152	147
5	205	176	155	140	200	173	154	139	168	151	138	163	148	136	159	146	135	130
6	191	160	139	124	186	158	138	124	153	136	123	149	134	122	145	132	121	116
7	178	146	126	112	174	144	125	111	141	123	110	137	121	110	134	120	109	104
8	167	135	115	101	163	133	114	101	130	112	100	127	111	99	124	110	99	94
9	156	124	105	92	153	123	104	92	120	103	91	118	102	91	115	101	90	86
10	147	115	97	84	144	114	96	84	112	95	83	109	94	83	107	93	83	79

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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	19.7	21.2	20.1	21.5	21.8	17.1	18.5	17.4	18.8	19.1
	3H	20.8	22.1	21.2	22.5	22.8	18.6	19.9	18.9	20.2	20.6
	4H	21.3	22.5	21.7	22.9	23.2	19.2	20.4	19.6	20.8	21.2
	6H	21.7	22.9	22.2	23.2	23.6	19.8	20.9	20.2	21.3	21.7
	8H	21.9	23.0	22.3	23.4	23.8	20.0	21.1	20.5	21.5	21.9
	12H	22.1	23.1	22.5	23.5	23.9	20.2	21.2	20.6	21.6	22.0

UGR Viewed Endwise

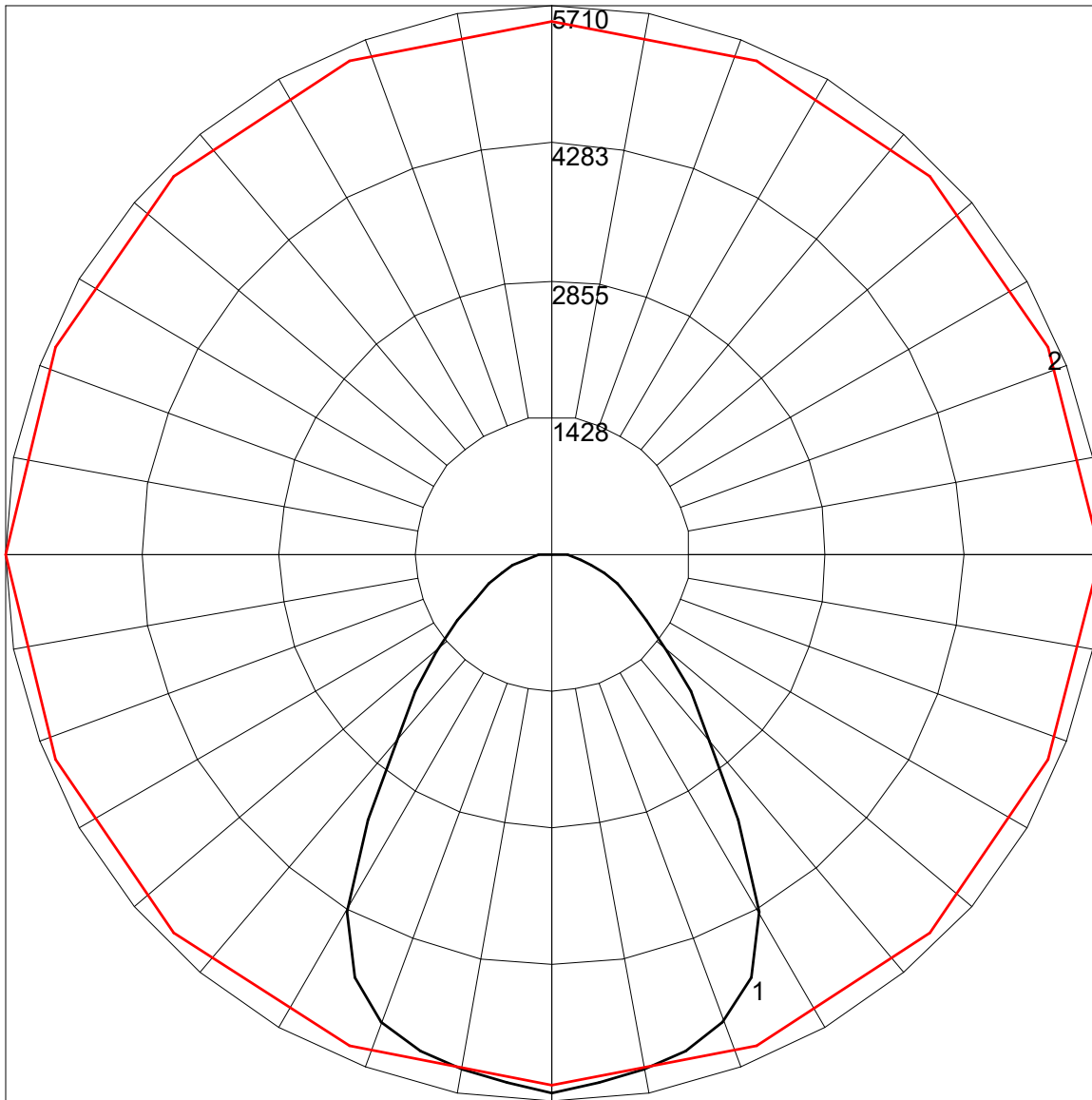
4H	2H	19.8	21.0	20.2	21.4	21.8	17.5	18.7	17.9	19.1	19.5
	3H	21.1	22.1	21.5	22.5	22.9	19.2	20.2	19.6	20.6	21.0
	4H	21.7	22.6	22.1	23.0	23.5	20.0	20.9	20.4	21.3	21.8
	6H	22.3	23.1	22.8	23.5	24.0	20.8	21.6	21.2	22.0	22.5
	8H	22.6	23.3	23.0	23.7	24.2	21.1	21.8	21.5	22.3	22.7
	12H	22.8	23.4	23.3	23.9	24.4	21.3	22.0	21.8	22.5	22.9

8H	4H	21.8	22.5	22.2	23.0	23.4	20.2	21.0	20.7	21.4	21.9
	6H	22.5	23.1	23.0	23.6	24.1	21.1	21.8	21.6	22.3	22.7
	8H	22.9	23.4	23.4	23.9	24.4	21.6	22.1	22.1	22.6	23.1
	12H	23.2	23.7	23.7	24.2	24.7	21.9	22.4	22.4	22.9	23.5

12H	4H	21.8	22.5	22.3	22.9	23.4	20.3	20.9	20.8	21.4	21.9
	6H	22.5	23.1	23.1	23.6	24.1	21.2	21.8	21.7	22.2	22.8
	8H	22.9	23.4	23.5	23.9	24.5	21.7	22.2	22.2	22.7	23.2

Maximum UGR = 24.7

POLAR GRAPH



Maximum Candela = 5710.49 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.)