



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75L-8-L160-835-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

[ISSUEDATE] 4-AUG-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-L160-835-AF12125-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	18597
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	139
Total Luminaire Watts	133.8
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	62016	47951	38360
55	49655	33605	28088
65	35106	22464	23437
75	26677	17150	21913
85	27350	20277	23106

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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	8959.603	8959.603	8959.603	8959.603	8959.603
5	9111.212	8949.822	8900.916	8866.682	8842.228
10	8993.837	8852.010	8817.775	8778.650	8734.635
15	8817.775	8661.276	8587.917	8631.932	8563.464
20	8534.120	8382.511	8318.933	8343.386	8318.933
25	8123.308	8005.934	7917.903	7820.090	7805.418
30	7673.372	7521.763	7252.779	7037.592	6885.983
35	7086.498	6866.421	6401.813	5849.173	5394.346
40	6220.860	6015.454	5213.394	4362.427	4049.428
45	5218.284	5091.128	4034.756	3364.742	3227.805
50	4264.615	4049.428	3071.305	2631.150	2508.885
55	3389.195	2944.149	2293.698	2014.933	1917.120
60	2503.994	2014.933	1692.152	1501.418	1496.528
65	1765.511	1403.606	1129.732	1134.622	1178.638
70	1212.872	948.779	758.045	885.201	904.763
75	821.623	650.452	528.186	645.561	674.905
80	577.092	464.608	410.811	449.936	464.608
85	283.656	264.093	210.296	239.640	239.640
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	3287.12	N.A.	17.70
0-30	6919.73	N.A.	37.20
0-40	10846.46	N.A.	58.30
0-60	16329.24	N.A.	87.80
0-80	18338.46	N.A.	98.60
0-90	18596.94	N.A.	100.00
10-90	17748.12	N.A.	95.40
20-40	7559.34	N.A.	40.60
20-50	10800.44	N.A.	58.10
40-70	6789.76	N.A.	36.50
60-80	2009.23	N.A.	10.80
70-80	702.25	N.A.	3.80
80-90	258.48	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	18596.94	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	848.82
10-20	2438.3
20-30	3632.61
30-40	3926.73
40-50	3241.11
50-60	2241.67
60-70	1306.98
70-80	702.25
80-90	258.48
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	112	112	112	112	110	110	110	110	105	105	105	100	100	100	96	96	96	94
1	104	100	97	93	101	98	95	92	94	91	89	90	88	86	87	85	84	82
2	96	89	84	79	93	87	82	78	84	80	76	81	78	74	78	75	73	71
3	88	80	73	68	86	78	72	67	76	70	66	73	69	65	71	67	64	62
4	82	72	64	59	80	71	64	58	68	62	58	66	61	57	64	60	56	54
5	76	65	57	52	74	64	57	51	62	56	51	60	55	50	59	54	50	48
6	71	59	52	46	69	58	51	46	57	50	45	55	49	45	54	49	45	43
7	66	54	47	41	64	53	46	41	52	46	41	51	45	41	49	44	40	39
8	62	50	42	37	60	49	42	37	48	42	37	47	41	37	46	41	37	35
9	58	46	39	34	56	45	39	34	44	38	34	43	38	34	43	37	33	32
10	54	43	36	31	53	42	35	31	41	35	31	40	35	31	40	34	31	29

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UGR TABLE - CORRECTED

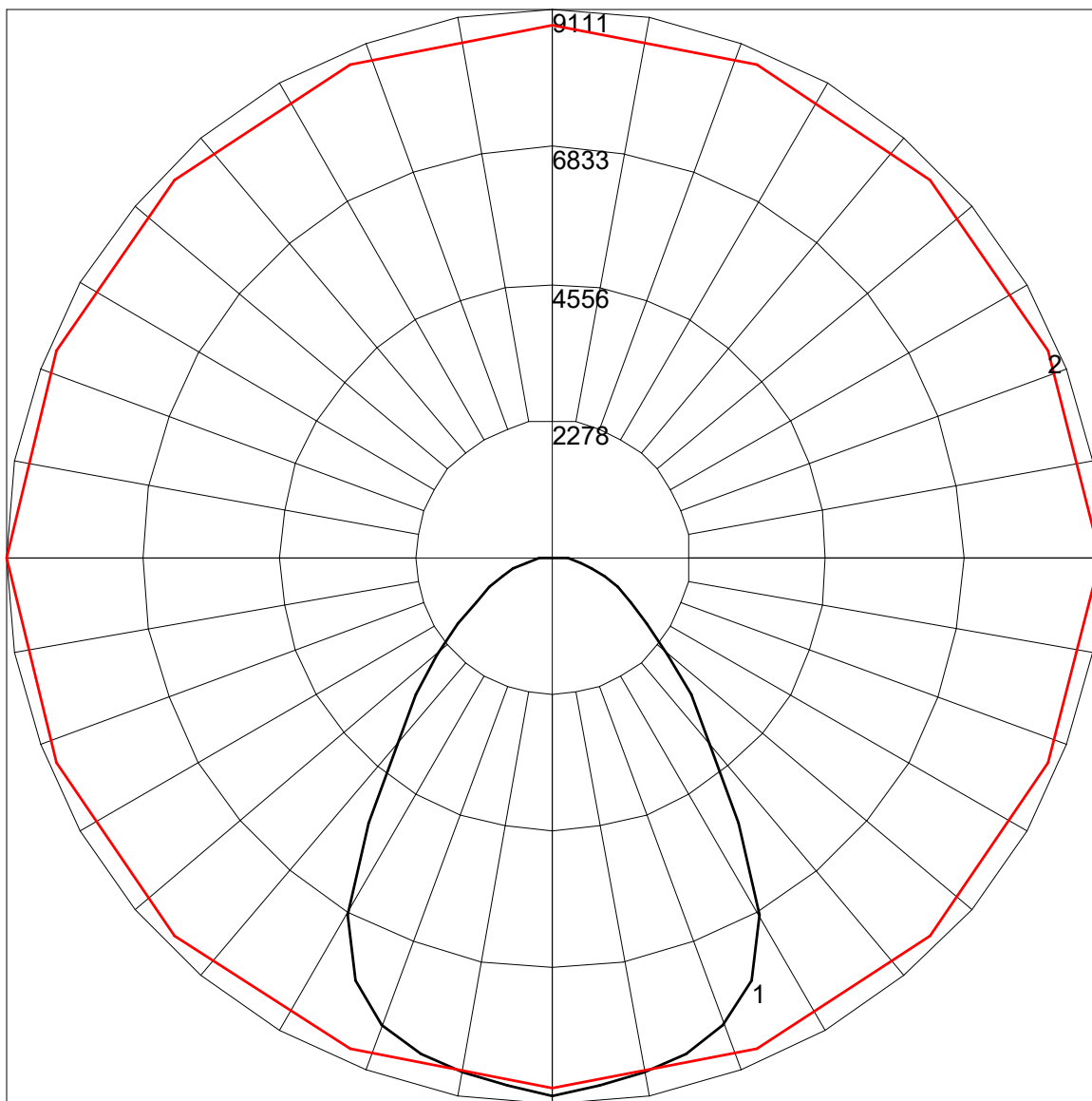
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	24.8	26.3	25.2	26.6	26.9	22.2	23.6	22.5	23.9	24.2
	3H	25.9	27.3	26.3	27.6	27.9	23.7	25.0	24.0	25.3	25.7
	4H	26.4	27.6	26.8	28.0	28.3	24.3	25.5	24.7	25.9	26.3
	6H	26.8	28.0	27.3	28.3	28.7	24.9	26.0	25.3	26.4	26.8
	8H	27.0	28.1	27.4	28.5	28.9	25.1	26.2	25.6	26.6	27.0
	12H	27.2	28.2	27.6	28.6	29.0	25.3	26.3	25.7	26.7	27.1
4H	2H	24.9	26.1	25.3	26.5	26.9	22.6	23.8	23.0	24.2	24.6
	3H	26.2	27.2	26.6	27.6	28.0	24.3	25.3	24.7	25.7	26.1
	4H	26.8	27.7	27.2	28.1	28.6	25.1	26.0	25.5	26.4	26.9
	6H	27.4	28.2	27.9	28.6	29.1	25.9	26.7	26.3	27.1	27.6
	8H	27.7	28.4	28.1	28.8	29.3	26.2	26.9	26.6	27.4	27.8
	12H	27.9	28.5	28.4	29.0	29.5	26.4	27.1	26.9	27.6	28.0
8H	4H	26.9	27.6	27.3	28.1	28.5	25.3	26.1	25.8	26.5	27.0
	6H	27.6	28.2	28.1	28.7	29.2	26.2	26.9	26.7	27.4	27.8
	8H	28.0	28.5	28.5	29.0	29.5	26.7	27.2	27.2	27.7	28.2
	12H	28.3	28.8	28.8	29.3	29.8	27.0	27.5	27.5	28.0	28.6
12H	4H	26.9	27.6	27.4	28.0	28.5	25.4	26.0	25.9	26.5	27.0
	6H	27.6	28.2	28.2	28.7	29.2	26.3	26.9	26.9	27.3	27.9
	8H	28.0	28.5	28.6	29.0	29.6	26.8	27.3	27.3	27.8	28.3

Maximum UGR = 29.8

POLAR GRAPH



Maximum Candela = 9111.212 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.)