



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75L-8-L76-835-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] 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-L76-835-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	8834
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	147
Total Luminaire Watts	60.3
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	29459	22778	18222
55	23588	15963	13342
65	16676	10671	11133
75	12672	8146	10409
85	12992	9632	10976

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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	4256.040	4256.040	4256.040	4256.040	4256.040
5	4328.058	4251.394	4228.162	4211.900	4200.284
10	4272.302	4204.930	4188.668	4170.083	4149.174
15	4188.668	4114.327	4079.479	4100.388	4067.863
20	4053.924	3981.906	3951.705	3963.321	3951.705
25	3858.779	3803.023	3761.206	3714.742	3707.773
30	3645.047	3573.029	3445.255	3343.036	3271.018
35	3366.267	3261.725	3041.024	2778.506	2562.452
40	2955.067	2857.494	2476.495	2072.264	1923.581
45	2478.818	2418.416	1916.612	1598.338	1533.289
50	2025.801	1923.581	1458.948	1249.863	1191.784
55	1609.954	1398.546	1089.565	957.144	910.681
60	1189.461	957.144	803.815	713.212	710.889
65	838.663	666.749	536.651	538.974	559.883
70	576.145	450.694	360.091	420.493	429.786
75	390.292	308.981	250.902	306.658	320.597
80	274.134	220.701	195.146	213.731	220.701
85	134.744	125.451	99.896	113.835	113.835
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1561.47	N.A.	17.70
0-30	3287.05	N.A.	37.20
0-40	5152.34	N.A.	58.30
0-60	7756.8	N.A.	87.80
0-80	8711.24	N.A.	98.60
0-90	8834.02	N.A.	100.00
10-90	8430.81	N.A.	95.40
20-40	3590.88	N.A.	40.60
20-50	5130.49	N.A.	58.10
40-70	3225.31	N.A.	36.50
60-80	954.43	N.A.	10.80
70-80	333.58	N.A.	3.80
80-90	122.78	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	8834.02	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	403.21
10-20	1158.26
20-30	1725.58
30-40	1865.29
40-50	1539.61
50-60	1064.85
60-70	620.85
70-80	333.58
80-90	122.78
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	102	99	108	104	101	98	100	97	95	96	94	92	92	91	89	87
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	75
3	94	85	77	72	92	83	76	71	80	75	70	78	73	69	75	71	68	66
4	87	76	68	62	85	75	68	62	73	66	61	70	65	60	68	63	60	58
5	81	69	61	55	79	68	60	55	66	59	54	64	58	54	62	57	53	51
6	75	63	55	49	73	62	54	49	60	53	48	59	52	48	57	52	47	46
7	70	57	49	44	68	57	49	44	55	48	43	54	48	43	53	47	43	41
8	65	53	45	40	64	52	45	39	51	44	39	50	44	39	49	43	39	37
9	61	49	41	36	60	48	41	36	47	40	36	46	40	36	45	40	35	34
10	58	45	38	33	56	45	38	33	44	37	33	43	37	33	42	37	33	31

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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	22.0	23.5	22.4	23.8	24.1	19.4	20.8	19.7	21.1	21.4
	3H	23.1	24.4	23.5	24.8	25.1	20.9	22.2	21.2	22.5	22.9
	4H	23.6	24.8	24.0	25.2	25.5	21.5	22.7	21.9	23.1	23.5
	6H	24.0	25.2	24.5	25.5	25.9	22.1	23.2	22.5	23.6	24.0
	8H	24.2	25.3	24.6	25.7	26.1	22.3	23.4	22.8	23.8	24.2
	12H	24.4	25.4	24.8	25.8	26.2	22.5	23.5	22.9	23.9	24.3

UGR Viewed Endwise

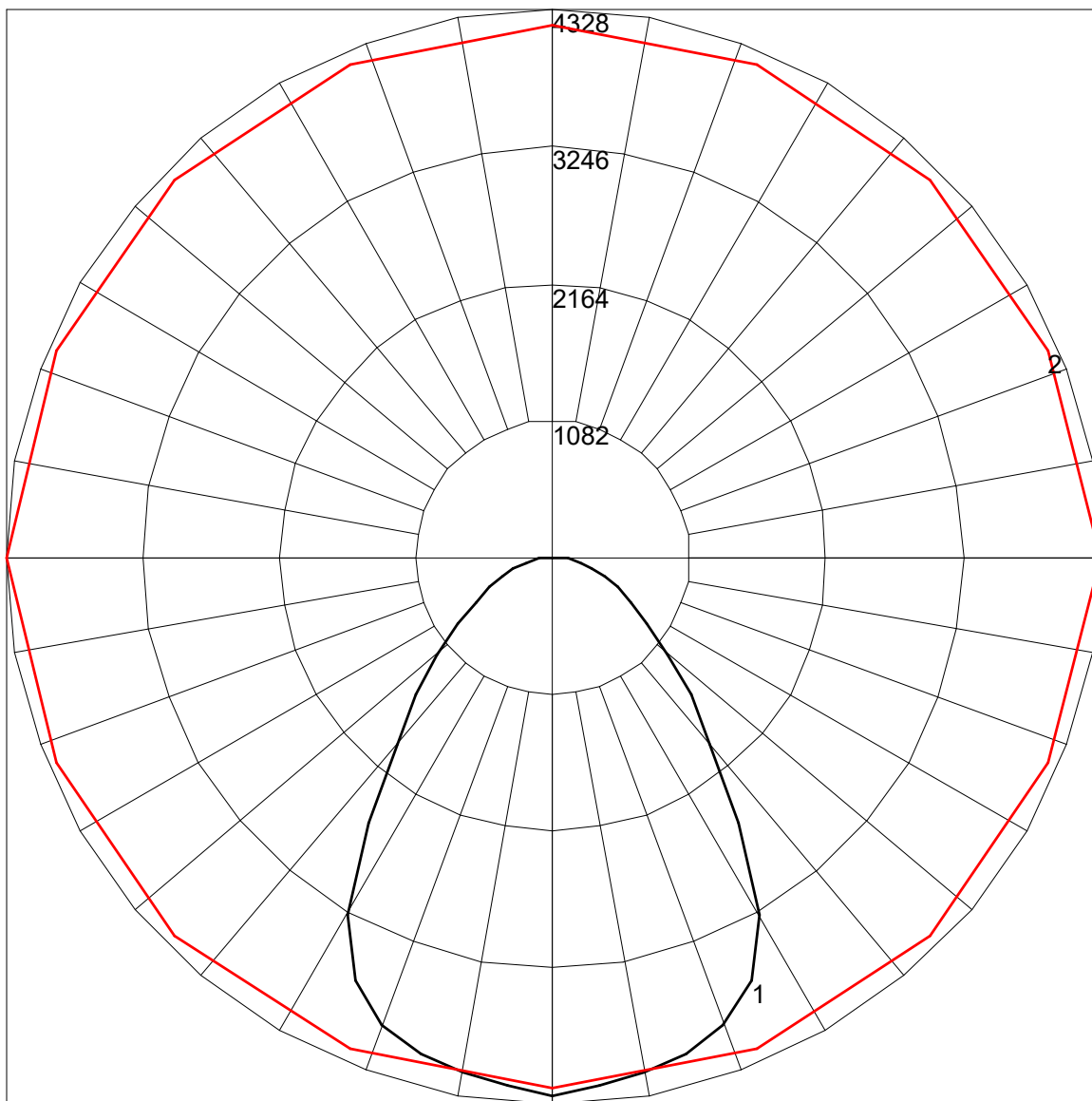
4H	2H	22.1	23.3	22.5	23.7	24.1	19.8	21.0	20.2	21.4	21.8
	3H	23.4	24.4	23.8	24.8	25.2	21.5	22.5	21.9	22.9	23.3
	4H	24.0	24.9	24.4	25.3	25.8	22.3	23.2	22.7	23.6	24.1
	6H	24.6	25.4	25.1	25.8	26.3	23.1	23.9	23.5	24.3	24.8
	8H	24.9	25.6	25.3	26.0	26.5	23.4	24.1	23.8	24.6	25.0
	12H	25.1	25.7	25.6	26.2	26.7	23.6	24.3	24.1	24.8	25.2

8H	4H	24.1	24.8	24.5	25.3	25.7	22.5	23.3	23.0	23.7	24.2
	6H	24.8	25.4	25.3	25.9	26.4	23.4	24.1	23.9	24.6	25.0
	8H	25.2	25.7	25.7	26.2	26.7	23.9	24.4	24.4	24.9	25.4
	12H	25.5	26.0	26.0	26.5	27.0	24.2	24.7	24.7	25.2	25.8

12H	4H	24.1	24.8	24.6	25.2	25.7	22.6	23.2	23.1	23.7	24.2
	6H	24.8	25.4	25.4	25.9	26.4	23.5	24.1	24.0	24.5	25.1
	8H	25.2	25.7	25.8	26.2	26.8	24.0	24.5	24.5	25.0	25.5

Maximum UGR = 27.0

POLAR GRAPH



Maximum Candela = 4328.058 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.)