



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75L-4-L65-835-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] 4' LED SURFACE MOUNT LUMINAIRE

[MORE] WHITE REFLECTOR w/CLEAR PRISMATIC LENS

[LUMCAT] 75L-4-L65-835-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	7534
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	135
Total Luminaire Watts	55.7
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)	3.71 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	50412	38978	31183
55	40364	27317	22832
65	28537	18261	19051
75	21685	13941	17813
85	22232	16483	18782

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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	3629.798	3629.798	3629.798	3629.798	3629.798
5	3691.220	3625.836	3606.022	3592.153	3582.246
10	3643.668	3586.209	3572.340	3556.489	3538.657
15	3572.340	3508.937	3479.217	3497.049	3469.311
20	3457.423	3396.001	3370.244	3380.151	3370.244
25	3290.991	3243.439	3207.775	3168.148	3162.204
30	3108.708	3047.287	2938.314	2851.135	2789.714
35	2870.949	2781.789	2593.562	2369.672	2185.408
40	2520.253	2437.037	2112.099	1767.347	1640.542
45	2114.080	2062.566	1634.598	1363.156	1307.678
50	1727.721	1640.542	1244.276	1065.956	1016.423
55	1373.062	1192.761	929.244	816.308	776.682
60	1014.441	816.308	685.541	608.269	606.287
65	715.260	568.642	457.687	459.669	477.501
70	491.370	384.378	307.106	358.621	366.546
75	332.864	263.517	213.984	261.536	273.424
80	233.797	188.226	166.432	182.282	188.226
85	114.917	106.992	85.197	97.085	97.085
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1331.71	N.A.	17.70
0-30	2803.39	N.A.	37.20
0-40	4394.22	N.A.	58.30
0-60	6615.45	N.A.	87.80
0-80	7429.45	N.A.	98.60
0-90	7534.17	N.A.	100.00
10-90	7190.28	N.A.	95.40
20-40	3062.51	N.A.	40.60
20-50	4375.58	N.A.	58.10
40-70	2750.73	N.A.	36.50
60-80	814.00	N.A.	10.80
70-80	284.50	N.A.	3.80
80-90	104.72	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	7534.17	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	343.88
10-20	987.83
20-30	1471.68
30-40	1590.83
40-50	1313.07
50-60	908.17
60-70	529.50
70-80	284.50
80-90	104.72
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	198	198	198	198	193	193	193	193	185	185	185	177	177	177	170	170	170	166
1	184	177	171	165	179	173	167	162	166	161	157	160	156	152	154	151	148	145
2	169	157	147	139	165	154	145	138	149	141	134	143	137	131	138	133	129	125
3	156	141	129	119	152	138	127	118	134	124	116	129	121	114	125	118	112	109
4	145	127	114	104	141	125	113	103	121	110	102	117	108	100	113	106	99	96
5	134	115	101	91	131	113	100	91	110	98	90	106	97	89	104	95	88	85
6	125	104	91	81	122	103	90	81	100	89	80	97	87	80	95	86	79	76
7	116	96	82	73	114	94	82	73	92	80	72	90	79	72	87	78	71	68
8	109	88	75	66	106	87	74	66	85	73	65	83	72	65	81	72	65	62
9	102	81	68	60	100	80	68	60	78	67	59	77	67	59	75	66	59	56
10	96	75	63	55	94	74	63	55	73	62	54	71	61	54	70	61	54	51

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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	21.5
	3H	23.2	24.5	23.5	24.8	25.2	20.9	22.2	21.3	22.5	22.9
	4H	23.6	24.8	24.0	25.2	25.6	21.5	22.7	21.9	23.1	23.5
	6H	24.1	25.2	24.5	25.6	25.9	22.1	23.2	22.5	23.6	24.0
	8H	24.2	25.3	24.7	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	23.6	23.0	23.9	24.4

UGR Viewed Endwise

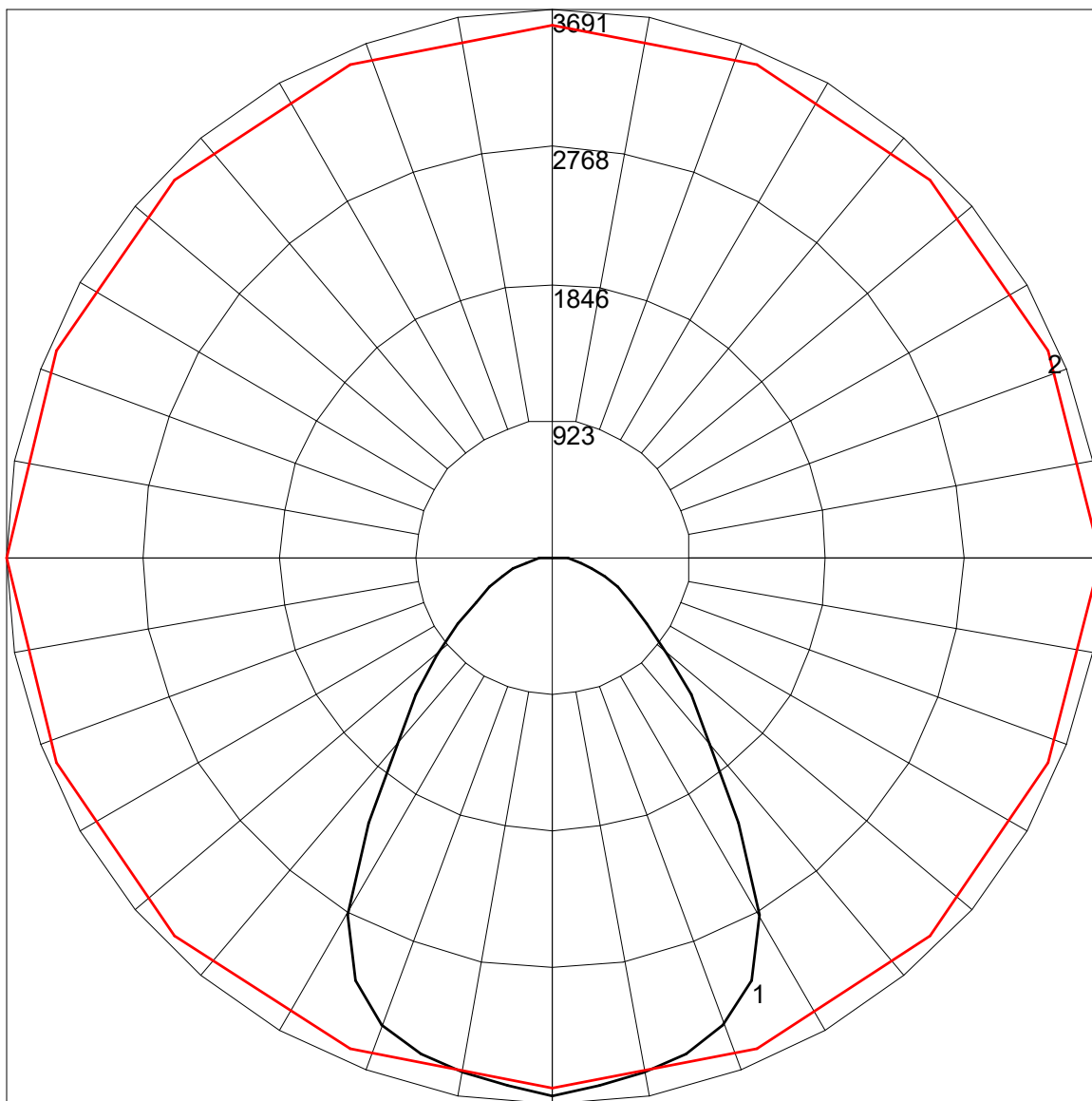
4H	2H	22.1	23.4	22.5	23.7	24.1	19.8	21.1	20.2	21.4	21.8
	3H	23.5	24.5	23.9	24.9	25.3	21.5	22.5	21.9	22.9	23.3
	4H	24.0	24.9	24.4	25.3	25.8	22.3	23.2	22.8	23.7	24.1
	6H	24.6	25.4	25.1	25.9	26.3	23.1	23.9	23.6	24.3	24.8
	8H	24.9	25.6	25.3	26.1	26.5	23.4	24.1	23.8	24.6	25.0
	12H	25.1	25.8	25.6	26.2	26.7	23.6	24.3	24.1	24.8	25.3

8H	4H	24.1	24.8	24.6	25.3	25.8	22.5	23.3	23.0	23.7	24.2
	6H	24.8	25.4	25.3	25.9	26.4	23.5	24.1	24.0	24.6	25.1
	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	27.1	24.3	24.7	24.8	25.2	25.8

12H	4H	24.1	24.8	24.6	25.3	25.7	22.6	23.3	23.1	23.7	24.2
	6H	24.9	25.4	25.4	25.9	26.4	23.5	24.1	24.1	24.6	25.1
	8H	25.3	25.8	25.8	26.2	26.8	24.0	24.5	24.5	25.0	25.6

Maximum UGR = 27.1

POLAR GRAPH



Maximum Candela = 3691.22 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.)