



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75L-8-L40-835-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-L40-835-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	4574
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	154
Total Luminaire Watts	29.7
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)	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	15255	11795	9436
55	12214	8266	6909
65	8635	5526	5765
75	6562	4218	5390
85	6728	4988	5684

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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>
<b>0</b>	2203.892	2203.892	2203.892	2203.892	2203.892
<b>5</b>	2241.185	2201.486	2189.456	2181.035	2175.020
<b>10</b>	2212.313	2177.426	2169.005	2159.381	2148.555
<b>15</b>	2169.005	2130.510	2112.465	2123.292	2106.450
<b>20</b>	2099.232	2061.939	2046.300	2052.315	2046.300
<b>25</b>	1998.180	1969.308	1947.654	1923.594	1919.985
<b>30</b>	1887.504	1850.211	1784.046	1731.114	1693.821
<b>35</b>	1743.144	1689.009	1574.724	1438.786	1326.907
<b>40</b>	1530.214	1479.688	1282.396	1073.074	996.082
<b>45</b>	1283.599	1252.321	992.473	827.663	793.979
<b>50</b>	1049.014	996.082	755.483	647.213	617.138
<b>55</b>	833.678	724.205	564.206	495.635	471.575
<b>60</b>	615.935	495.635	416.237	369.320	368.117
<b>65</b>	434.282	345.260	277.893	279.096	289.923
<b>70</b>	298.344	233.382	186.465	217.743	222.555
<b>75</b>	202.104	159.999	129.924	158.796	166.014
<b>80</b>	141.954	114.285	101.052	110.676	114.285
<b>85</b>	69.774	64.962	51.729	58.947	58.947
<b>90</b>	0.000	0.000	0.000	0.000	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	808.57	N.A.	17.70
0-30	1702.12	N.A.	37.20
0-40	2668.02	N.A.	58.30
0-60	4016.68	N.A.	87.80
0-80	4510.91	N.A.	98.60
0-90	4574.5	N.A.	100.00
10-90	4365.7	N.A.	95.40
20-40	1859.45	N.A.	40.60
20-50	2656.7	N.A.	58.10
40-70	1670.15	N.A.	36.50
60-80	494.23	N.A.	10.80
70-80	172.74	N.A.	3.80
80-90	63.58	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	4574.5	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	208.79
10-20	599.78
20-30	893.55
30-40	965.90
40-50	797.25
50-60	551.41
60-70	321.49
70-80	172.74
80-90	63.58
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	120	120	120	120	117	117	117	117	112	112	112	107	107	107	103	103	103	101
1	111	107	104	100	109	105	102	99	101	98	95	97	95	93	93	91	90	88
2	103	96	90	85	100	94	88	84	90	86	82	87	83	80	84	81	78	76
3	95	86	78	72	93	84	77	72	81	75	71	78	74	69	76	72	68	66
4	88	77	69	63	86	76	68	63	73	67	62	71	65	61	69	64	60	58
5	81	70	62	55	79	69	61	55	67	60	55	65	59	54	63	58	54	52
6	76	63	55	49	74	63	55	49	61	54	49	59	53	48	58	52	48	46
7	71	58	50	44	69	57	50	44	56	49	44	54	48	44	53	47	43	41
8	66	53	45	40	65	53	45	40	51	45	40	50	44	39	49	43	39	37
9	62	49	42	36	61	49	41	36	48	41	36	47	40	36	46	40	36	34
10	58	46	38	33	57	45	38	33	44	38	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	21.5
	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

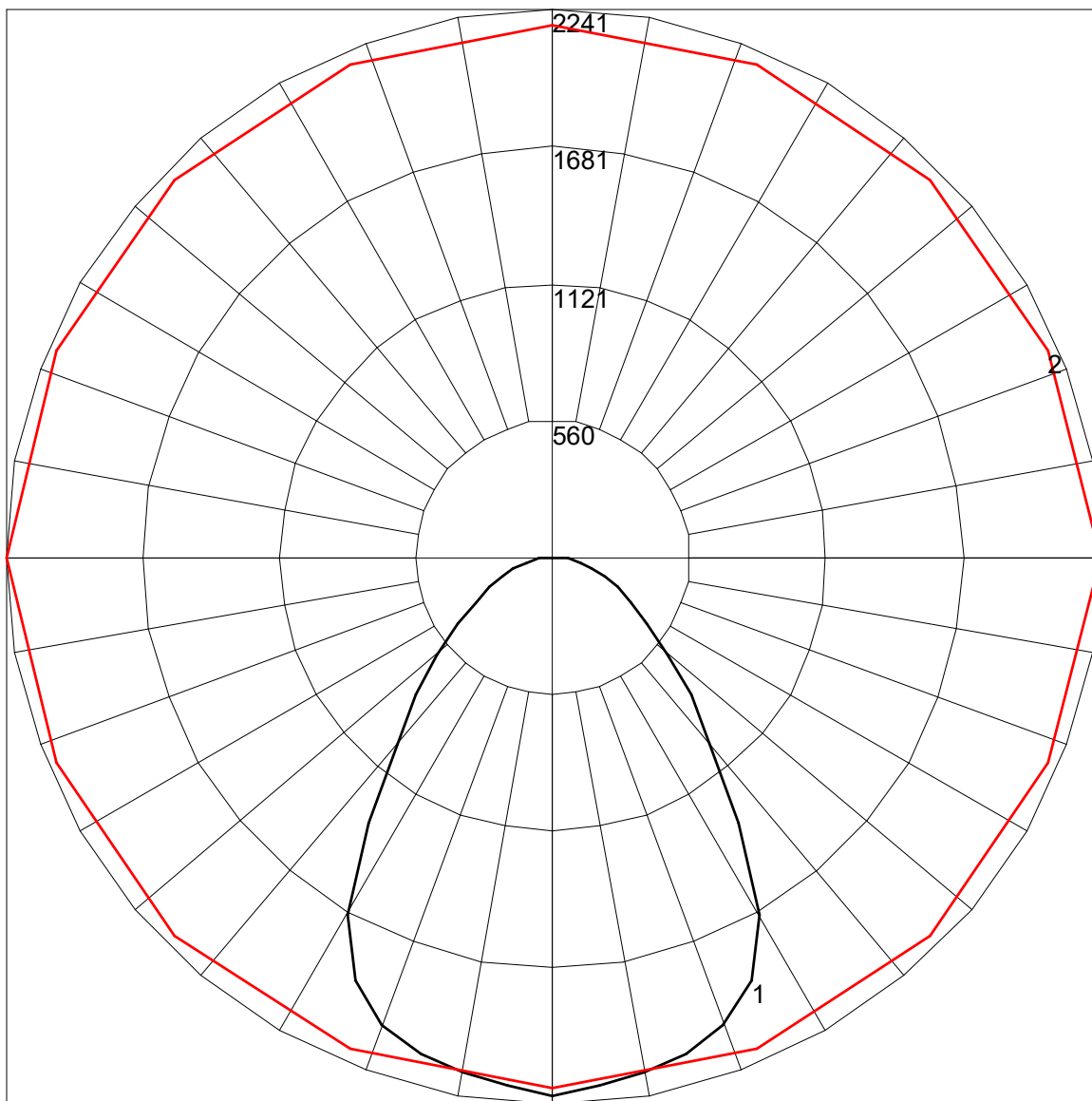
4H	2H	22.1	23.4	22.5	23.7	24.1	19.8	21.1	20.2	21.4	21.8
	3H	23.5	24.5	23.9	24.9	25.3	21.5	22.5	21.9	22.9	23.3
	4H	24.0	24.9	24.4	25.3	25.8	22.3	23.2	22.8	23.7	24.1
	6H	24.6	25.4	25.1	25.9	26.3	23.1	23.9	23.6	24.3	24.8
	8H	24.9	25.6	25.3	26.1	26.5	23.4	24.1	23.8	24.6	25.0
	12H	25.1	25.8	25.6	26.2	26.7	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 = 2241.185 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.)