



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75L-4-L50-835-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-L50-835-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	5903
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	140
Total Luminaire Watts	42.2
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	39500	30541	24433
55	31627	21404	17890
65	22360	14308	14927
75	16991	10923	13957
85	17420	12915	14717

IES INDOOR REPORT  
 PHOTOMETRIC FILENAME : 75L-4-L50-835-A12125\_.IES

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>	2844.105	2844.105	2844.105	2844.105	2844.105
<b>5</b>	2892.231	2841.000	2825.475	2814.608	2806.846
<b>10</b>	2854.972	2809.951	2799.084	2786.664	2772.692
<b>15</b>	2799.084	2749.405	2726.118	2740.090	2718.356
<b>20</b>	2709.041	2660.915	2640.733	2648.495	2640.733
<b>25</b>	2578.634	2541.375	2513.431	2482.382	2477.725
<b>30</b>	2435.808	2387.682	2302.297	2233.989	2185.862
<b>35</b>	2249.513	2179.652	2032.169	1856.741	1712.362
<b>40</b>	1974.728	1909.525	1654.921	1384.793	1285.436
<b>45</b>	1656.474	1616.110	1280.779	1068.092	1024.623
<b>50</b>	1353.744	1285.436	974.944	835.223	796.411
<b>55</b>	1075.854	934.580	728.103	639.613	608.564
<b>60</b>	794.859	639.613	537.151	476.605	475.052
<b>65</b>	560.438	445.556	358.618	360.170	374.143
<b>70</b>	385.010	301.177	240.631	280.995	287.205
<b>75</b>	260.813	206.477	167.666	204.925	214.239
<b>80</b>	183.190	147.484	130.407	142.826	147.484
<b>85</b>	90.043	83.833	66.756	76.070	76.070
<b>90</b>	0.000	0.000	0.000	0.000	0.000

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 75L-4-L50-835-A12125\_.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1043.45	N.A.	17.70
0-30	2196.58	N.A.	37.20
0-40	3443.06	N.A.	58.30
0-60	5183.49	N.A.	87.80
0-80	5821.3	N.A.	98.60
0-90	5903.35	N.A.	100.00
10-90	5633.9	N.A.	95.40
20-40	2399.61	N.A.	40.60
20-50	3428.46	N.A.	58.10
40-70	2155.32	N.A.	36.50
60-80	637.80	N.A.	10.80
70-80	222.92	N.A.	3.80
80-90	82.05	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	5903.35	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	269.45
10-20	774.01
20-30	1153.12
30-40	1246.49
40-50	1028.85
50-60	711.59
60-70	414.88
70-80	222.92
80-90	82.05
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

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75L-4-L50-835-A12125\_.IES

## 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	155	155	155	155	152	152	152	152	145	145	145	139	139	139	133	133	133	130
1	144	138	134	129	140	135	131	127	130	126	123	125	122	119	120	118	116	113
2	133	123	116	109	129	121	114	108	116	110	105	112	107	103	108	104	101	98
3	122	110	101	94	119	108	100	93	105	97	91	101	95	90	98	93	88	85
4	113	99	89	81	110	98	88	81	95	86	80	92	84	79	89	83	78	75
5	105	90	79	72	102	89	79	71	86	77	70	83	76	70	81	74	69	67
6	98	82	71	64	95	81	71	63	78	70	63	76	68	62	74	67	62	59
7	91	75	64	57	89	74	64	57	72	63	57	70	62	56	68	61	56	53
8	85	69	59	52	83	68	58	51	66	57	51	65	57	51	63	56	51	48
9	80	64	54	47	78	63	53	47	61	53	47	60	52	46	59	52	46	44
10	75	59	49	43	74	58	49	43	57	49	43	56	48	43	55	48	42	40

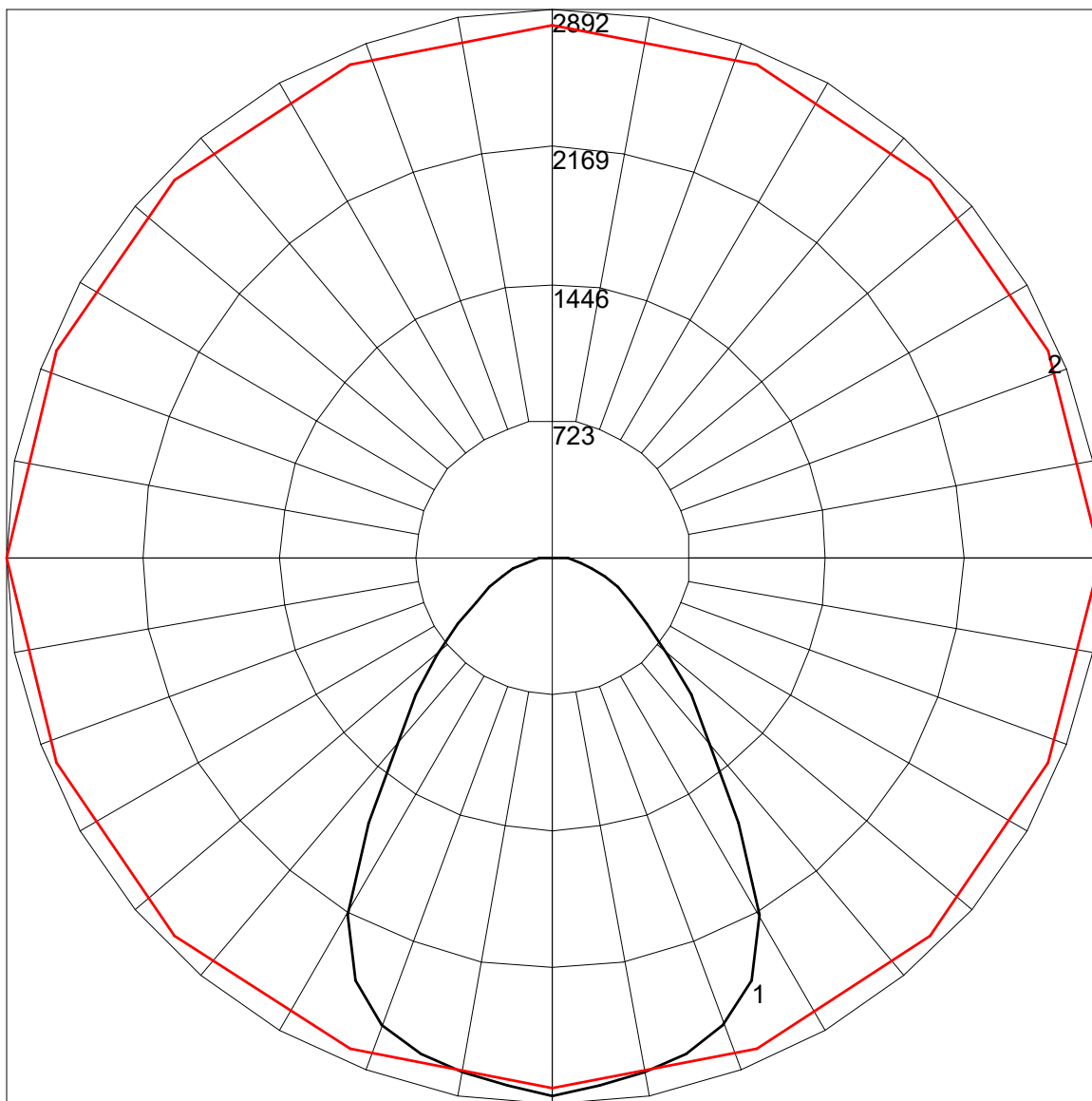
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 75L-4-L50-835-A12125\_.IES**

**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	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
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 = 2892.231 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.)