



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75L-2-L40-835-DMA\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 17956.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 4-AUG-2021

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS INC. - CARTHAGE, MO.

[LUMINAIRE] 22" LED STRIP SURFACE MOUNT LUMINAIRE

[MORE] WHITE REFL w/.104"THK FROSTED ACRYLIC LENS

[LUMCAT] 75L-2-L40-835-DMA-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	4014
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	119
Total Luminaire Watts	33.8
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.10
Spacing Criterion (Diagonal)	1.24
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.70 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	56327	49496	42991
55	48588	41303	35021
65	40909	33289	27847
75	32140	25327	21328
85	21992	15834	14954

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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>	1788.155	1788.155	1788.155	1788.155	1788.155
<b>5</b>	1824.545	1784.111	1778.046	1761.873	1747.722
<b>10</b>	1790.176	1758.841	1744.689	1730.538	1709.310
<b>15</b>	1735.592	1710.321	1687.072	1670.899	1641.585
<b>20</b>	1662.812	1638.552	1608.227	1581.946	1548.589
<b>25</b>	1569.816	1544.545	1501.080	1470.755	1426.278
<b>30</b>	1462.668	1432.343	1374.726	1339.347	1282.741
<b>35</b>	1338.336	1304.979	1235.232	1184.690	1132.127
<b>40</b>	1197.831	1162.452	1087.651	1024.980	970.395
<b>45</b>	1050.250	1006.785	922.886	870.323	801.587
<b>50</b>	894.583	857.182	769.240	711.623	658.049
<b>55</b>	734.872	711.623	624.692	568.085	529.674
<b>60</b>	587.291	567.075	492.273	446.786	414.439
<b>65</b>	455.883	431.624	370.974	340.649	310.324
<b>70</b>	334.584	304.259	262.815	237.545	219.350
<b>75</b>	219.350	194.079	172.852	149.603	145.559
<b>80</b>	126.354	105.126	94.007	81.877	83.899
<b>85</b>	50.541	36.390	36.390	30.325	34.368
<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	644.23	N.A.	16.00
0-30	1335.54	N.A.	33.30
0-40	2110.04	N.A.	52.60
0-60	3399.59	N.A.	84.70
0-80	3968.36	N.A.	98.90
0-90	4014.44	N.A.	100.00
10-90	3845.76	N.A.	95.80
20-40	1465.81	N.A.	36.50
20-50	2185.61	N.A.	54.40
40-70	1669.37	N.A.	41.60
60-80	568.77	N.A.	14.20
70-80	188.94	N.A.	4.70
80-90	46.08	N.A.	1.10
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	4014.44	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	168.67
10-20	475.56
20-30	691.31
30-40	774.50
40-50	719.80
50-60	569.75
60-70	379.83
70-80	188.94
80-90	46.08
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	115	115	115	115	112	112	112	112	107	107	107	103	103	103	98	98	98	96
1	106	102	98	95	103	100	96	93	95	93	90	92	90	87	88	87	85	83
2	97	90	84	79	95	88	83	78	85	80	76	82	78	74	79	76	73	71
3	89	80	72	67	87	78	72	66	75	70	65	73	68	64	70	66	63	61
4	82	71	63	57	80	70	63	57	68	61	56	66	60	55	63	59	55	53
5	76	64	56	50	74	63	56	50	61	54	49	59	53	49	58	52	48	46
6	70	58	50	44	69	57	50	44	56	49	44	54	48	43	53	47	43	41
7	65	53	45	39	64	52	45	39	51	44	39	49	43	39	48	43	38	37
8	61	49	41	35	60	48	41	35	47	40	35	46	39	35	44	39	35	33
9	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30
10	54	42	34	29	53	41	34	29	40	34	29	39	33	29	38	33	29	27

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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	25.6	27.2	26.0	27.5	27.8	UGR Viewed Endwise			
	3H	27.1	28.5	27.5	28.8	29.2	23.9	25.4	24.2	25.7
	4H	27.6	28.9	28.0	29.3	29.6	25.2	26.6	25.5	26.9
	6H	28.0	29.2	28.4	29.5	29.9	25.6	26.9	26.0	27.2
	8H	28.1	29.2	28.5	29.6	30.0	25.9	27.1	26.3	27.5
	12H	28.1	29.2	28.6	29.6	30.0	26.0	27.1	26.4	27.5

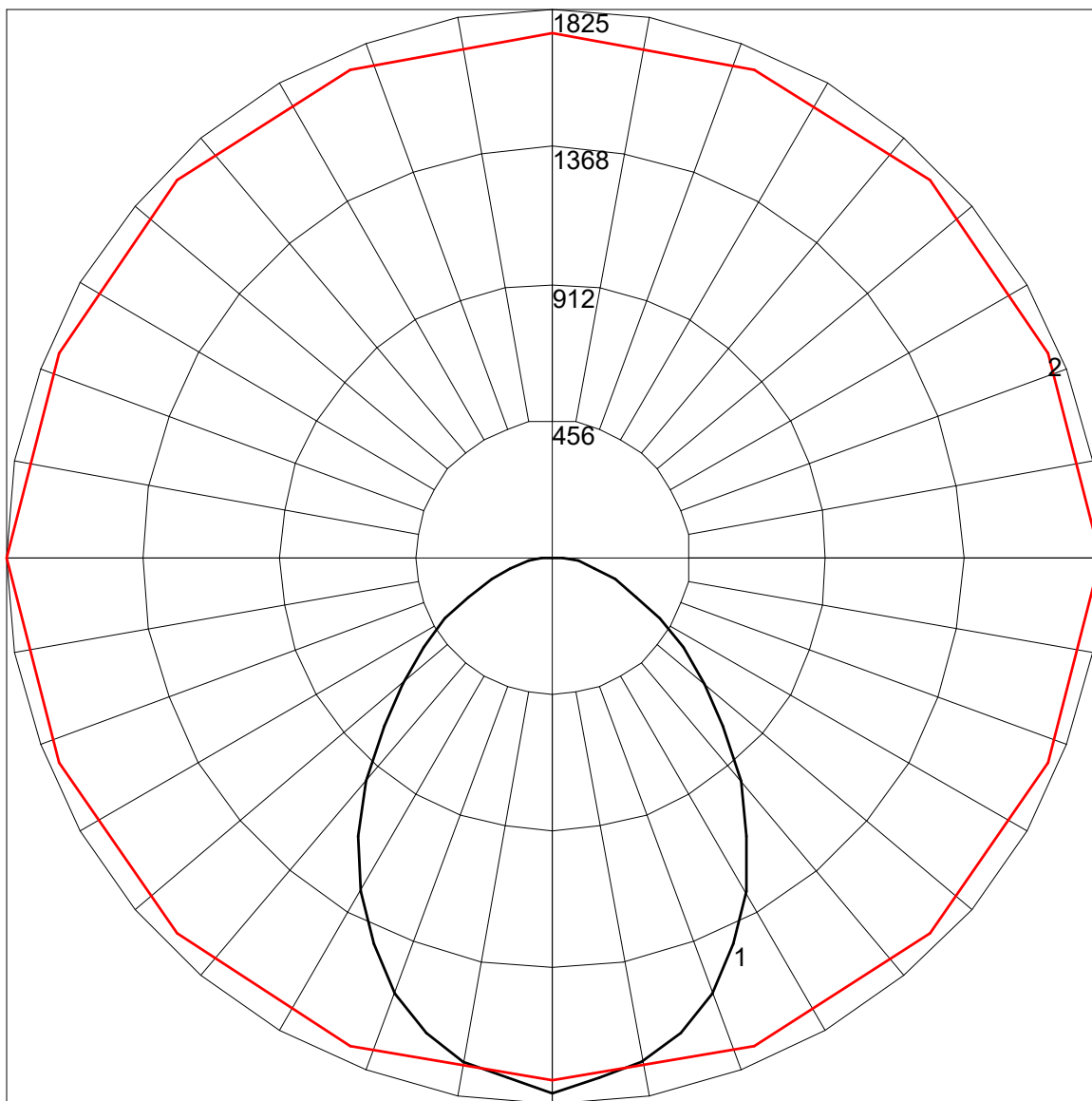
4H	2H	25.9	27.2	26.3	27.6	28.0	24.5	25.8	24.9	26.1
	3H	27.6	28.7	28.0	29.1	29.5	26.0	27.1	26.4	27.5
	4H	28.2	29.2	28.7	29.6	30.1	26.5	27.5	26.9	27.9
	6H	28.7	29.6	29.2	30.0	30.5	26.9	27.8	27.4	28.2
	8H	28.9	29.7	29.3	30.1	30.6	27.0	27.8	27.5	28.3
	12H	29.0	29.7	29.4	30.1	30.6	27.1	27.8	27.6	28.3

8H	4H	28.4	29.2	28.8	29.6	30.1	26.8	27.6	27.3	28.0
	6H	28.9	29.6	29.4	30.1	30.5	27.3	27.9	27.8	28.4
	8H	29.1	29.7	29.6	30.2	30.7	27.5	28.0	28.0	28.5
	12H	29.3	29.8	29.8	30.3	30.8	27.6	28.1	28.1	28.6

12H	4H	28.4	29.1	28.9	29.6	30.0	26.8	27.5	27.3	28.0
	6H	28.9	29.5	29.5	30.0	30.5	27.3	27.9	27.9	28.4
	8H	29.2	29.7	29.7	30.2	30.7	27.5	28.0	28.0	28.5

Maximum UGR = 30.8

POLAR GRAPH



Maximum Candela = 1824.545 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.)