



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75L-4-L38-835-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] 22-JUL-2021

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 44" LED STRIP SURFACE MOUNT LUMINAIRE

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

[LUMCAT] 75L-4-L38-835-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	3936
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	126
Total Luminaire Watts	31.2
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)	3.70 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	25361	22285	19356
55	21877	18597	15768
65	18419	14988	12538
75	14471	11403	9603
85	9902	7129	6733

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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>	1753.408	1753.408	1753.408	1753.408	1753.408
<b>5</b>	1789.091	1749.443	1743.496	1727.637	1713.761
<b>10</b>	1755.390	1724.664	1710.787	1696.910	1676.096
<b>15</b>	1701.866	1677.087	1654.289	1638.430	1609.686
<b>20</b>	1630.501	1606.713	1576.977	1551.206	1518.497
<b>25</b>	1539.312	1514.532	1471.911	1442.176	1398.563
<b>30</b>	1434.246	1404.511	1348.013	1313.321	1257.815
<b>35</b>	1312.330	1279.621	1211.229	1161.670	1110.128
<b>40</b>	1174.555	1139.864	1066.516	1005.063	951.539
<b>45</b>	1029.842	987.221	904.953	853.411	786.011
<b>50</b>	877.200	840.526	754.293	697.795	645.262
<b>55</b>	720.592	697.795	612.553	557.047	519.381
<b>60</b>	575.879	556.055	482.708	438.104	406.386
<b>65</b>	447.025	423.236	363.765	334.030	304.294
<b>70</b>	328.083	298.347	257.708	232.929	215.087
<b>75</b>	215.087	190.308	169.493	146.696	142.731
<b>80</b>	123.898	103.083	92.180	80.286	82.268
<b>85</b>	49.559	35.683	35.683	29.736	33.700
<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	631.71	N.A.	16.00
0-30	1309.59	N.A.	33.30
0-40	2069.04	N.A.	52.60
0-60	3333.53	N.A.	84.70
0-80	3891.24	N.A.	98.90
0-90	3936.43	N.A.	100.00
10-90	3771.04	N.A.	95.80
20-40	1437.33	N.A.	36.50
20-50	2143.14	N.A.	54.40
40-70	1636.93	N.A.	41.60
60-80	557.72	N.A.	14.20
70-80	185.27	N.A.	4.70
80-90	45.19	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	3936.43	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	165.40
10-20	466.32
20-30	677.88
30-40	759.45
40-50	705.81
50-60	558.67
60-70	372.45
70-80	185.27
80-90	45.19
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	229	229	229	229	224	224	224	224	214	214	214	205	205	205	196	196	196	192
1	211	203	196	189	206	199	192	186	191	185	180	183	179	175	176	173	169	166
2	194	179	167	157	189	176	165	155	169	160	152	163	155	148	157	151	145	141
3	178	159	145	133	174	156	143	132	151	139	130	146	136	127	141	132	125	121
4	164	142	127	115	160	140	125	114	135	122	112	131	120	111	127	117	109	105
5	152	128	112	100	148	126	111	99	122	109	98	118	107	97	115	105	96	92
6	141	116	100	88	137	114	99	88	111	97	87	108	96	86	105	94	86	82
7	131	106	90	79	128	104	89	78	102	88	78	99	86	77	96	85	77	73
8	122	97	82	71	119	96	81	71	93	80	70	91	79	70	89	78	69	66
9	114	90	74	64	112	88	74	64	86	73	64	84	72	63	82	71	63	60
10	107	83	68	58	105	82	68	58	80	67	58	78	66	58	77	66	58	54

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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	20.4	21.9	20.8	22.3	22.6	18.7	20.2	19.0	20.5	20.8
	3H	21.9	23.3	22.3	23.6	24.0	20.0	21.4	20.3	21.7	22.0
	4H	22.4	23.7	22.8	24.1	24.4	20.4	21.7	20.8	22.0	22.4
	6H	22.8	24.0	23.2	24.3	24.7	20.7	21.9	21.1	22.3	22.7
	8H	22.9	24.0	23.3	24.4	24.8	20.8	21.9	21.2	22.3	22.7
	12H	22.9	24.0	23.4	24.4	24.8	20.8	21.9	21.3	22.3	22.7

UGR Viewed Endwise

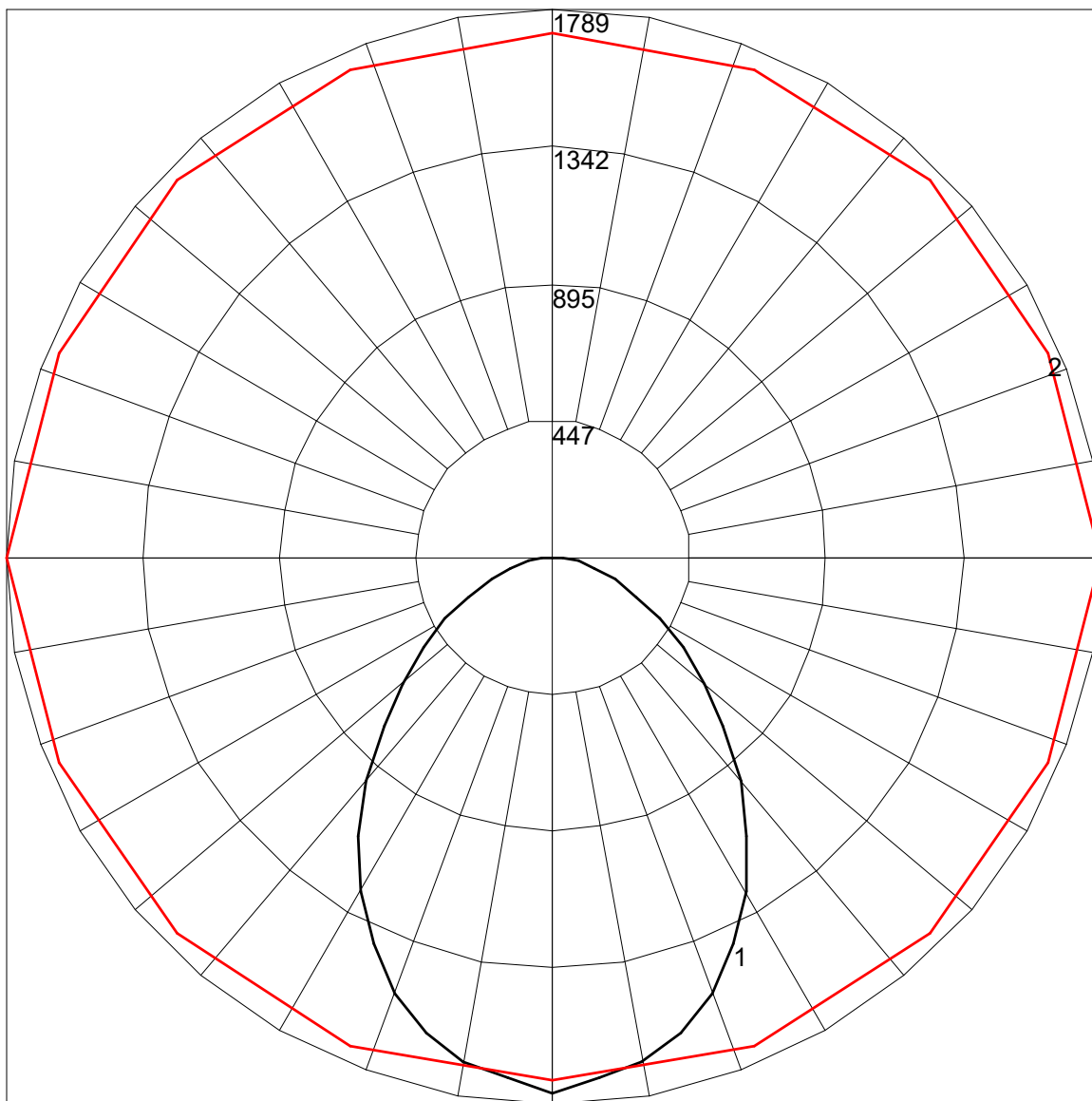
4H	2H	20.7	22.0	21.1	22.4	22.8	19.3	20.6	19.7	20.9	21.3
	3H	22.4	23.5	22.8	23.9	24.3	20.8	21.9	21.2	22.3	22.7
	4H	23.1	24.0	23.5	24.4	24.9	21.3	22.3	21.8	22.7	23.1
	6H	23.5	24.4	24.0	24.8	25.3	21.7	22.5	22.2	23.0	23.5
	8H	23.7	24.4	24.1	24.9	25.4	21.8	22.6	22.3	23.1	23.5
	12H	23.8	24.5	24.2	24.9	25.4	21.9	22.6	22.4	23.1	23.6

8H	4H	23.2	24.0	23.6	24.4	24.9	21.6	22.4	22.1	22.8	23.3
	6H	23.7	24.4	24.2	24.9	25.3	22.1	22.7	22.6	23.2	23.7
	8H	23.9	24.5	24.4	25.0	25.5	22.2	22.8	22.8	23.3	23.8
	12H	24.1	24.6	24.6	25.1	25.6	22.4	22.9	22.9	23.4	23.9

12H	4H	23.2	23.9	23.7	24.4	24.8	21.6	22.3	22.1	22.8	23.3
	6H	23.7	24.3	24.3	24.8	25.3	22.1	22.7	22.7	23.2	23.7
	8H	24.0	24.5	24.5	25.0	25.5	22.3	22.8	22.8	23.3	23.9

Maximum UGR = 25.6

POLAR GRAPH



Maximum Candela = 1789.091 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.)