



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75L-2-L10-835-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] 22" LED SURFACE MOUNT LUMINAIRE

[MORE] WHITE REFLECTOR w/CLEAR PRISMATIC LENS

[LUMCAT] 75L-2-L10-835-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	1177
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	142
Total Luminaire Watts	8.3
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)	1.71 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	17095	13218	10574
55	13688	9264	7743
65	9677	6192	6461
75	7354	4727	6041
85	7539	5589	6369

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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>	566.990	566.990	566.990	566.990	566.990
<b>5</b>	576.585	566.371	563.276	561.110	559.562
<b>10</b>	569.157	560.181	558.015	555.539	552.754
<b>15</b>	558.015	548.111	543.469	546.254	541.921
<b>20</b>	540.064	530.470	526.447	527.994	526.447
<b>25</b>	514.067	506.639	501.068	494.879	493.950
<b>30</b>	485.594	475.999	458.977	445.360	435.765
<b>35</b>	448.455	434.527	405.126	370.153	341.370
<b>40</b>	393.674	380.676	329.919	276.067	256.260
<b>45</b>	330.228	322.182	255.331	212.931	204.265
<b>50</b>	269.877	256.260	194.361	166.507	158.770
<b>55</b>	214.478	186.314	145.152	127.511	121.321
<b>60</b>	158.460	127.511	107.084	95.014	94.705
<b>65</b>	111.727	88.824	71.493	71.802	74.588
<b>70</b>	76.754	60.042	47.971	56.018	57.256
<b>75</b>	51.995	41.163	33.425	40.853	42.710
<b>80</b>	36.520	29.402	25.997	28.473	29.402
<b>85</b>	17.951	16.713	13.308	15.165	15.165
<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	208.02	N.A.	17.70
0-30	437.90	N.A.	37.20
0-40	686.40	N.A.	58.30
0-60	1033.36	N.A.	87.80
0-80	1160.51	N.A.	98.60
0-90	1176.87	N.A.	100.00
10-90	1123.15	N.A.	95.40
20-40	478.38	N.A.	40.60
20-50	683.48	N.A.	58.10
40-70	429.68	N.A.	36.50
60-80	127.15	N.A.	10.80
70-80	44.44	N.A.	3.80
80-90	16.36	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	1176.87	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	53.72
10-20	154.30
20-30	229.88
30-40	248.49
40-50	205.11
50-60	141.86
60-70	82.71
70-80	44.44
80-90	16.36
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 RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	60	60	60	60	58	58	58	58	56	56	56	53	53	53	51	51	51	50
1	55	53	51	50	54	52	50	49	50	49	47	48	47	46	46	45	44	43
2	51	47	44	42	50	46	44	41	45	42	40	43	41	39	42	40	39	38
3	47	42	39	36	46	42	38	36	40	37	35	39	36	34	38	36	34	33
4	43	38	34	31	42	37	34	31	36	33	31	35	32	30	34	32	30	29
5	40	34	30	27	39	34	30	27	33	30	27	32	29	27	31	29	26	26
6	37	31	27	24	37	31	27	24	30	27	24	29	26	24	29	26	24	23
7	35	29	25	22	34	28	25	22	28	24	22	27	24	22	26	24	21	20
8	33	26	22	20	32	26	22	20	25	22	20	25	22	20	24	22	19	19
9	31	24	21	18	30	24	20	18	24	20	18	23	20	18	23	20	18	17
10	29	23	19	16	28	22	19	16	22	19	16	21	18	16	21	18	16	15

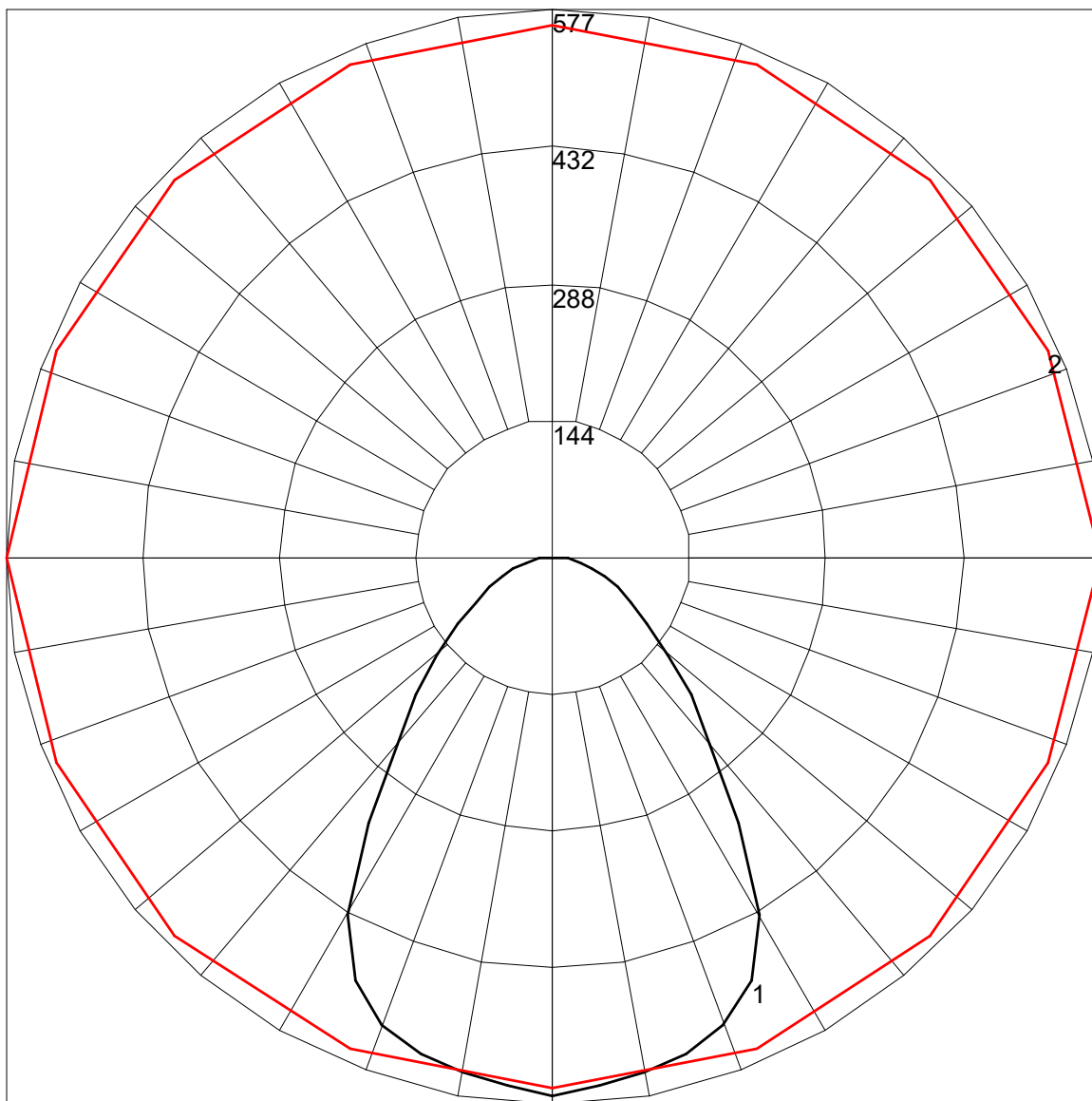
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**UGR TABLE - CORRECTED**

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					UGR Viewed Endwise				
X=2H	Y=2H	19.8	21.3	20.2	21.6	21.9	17.2	18.6	17.5	18.9	19.3
	3H	21.0	22.3	21.3	22.6	23.0	18.7	20.0	19.1	20.3	20.7
	4H	21.4	22.6	21.8	23.0	23.4	19.3	20.5	19.7	20.9	21.3
	6H	21.9	23.0	22.3	23.4	23.7	19.9	21.0	20.3	21.4	21.8
	8H	22.0	23.1	22.5	23.5	23.9	20.1	21.2	20.6	21.6	22.0
	12H	22.2	23.2	22.6	23.6	24.0	20.3	21.4	20.8	21.7	22.2
4H	2H	19.9	21.2	20.3	21.5	21.9	17.6	18.9	18.0	19.2	19.6
	3H	21.3	22.3	21.7	22.7	23.1	19.3	20.3	19.7	20.7	21.2
	4H	21.8	22.7	22.2	23.1	23.6	20.1	21.0	20.6	21.5	21.9
	6H	22.4	23.2	22.9	23.7	24.1	20.9	21.7	21.4	22.1	22.6
	8H	22.7	23.4	23.1	23.9	24.3	21.2	21.9	21.6	22.4	22.8
	12H	22.9	23.6	23.4	24.0	24.5	21.4	22.1	21.9	22.6	23.1
8H	4H	21.9	22.6	22.4	23.1	23.6	20.3	21.1	20.8	21.5	22.0
	6H	22.6	23.2	23.1	23.7	24.2	21.3	21.9	21.8	22.4	22.9
	8H	23.0	23.5	23.5	24.0	24.5	21.7	22.2	22.2	22.7	23.2
	12H	23.3	23.8	23.8	24.3	24.9	22.1	22.5	22.6	23.0	23.6
12H	4H	21.9	22.6	22.4	23.1	23.5	20.4	21.1	20.9	21.5	22.0
	6H	22.7	23.2	23.2	23.7	24.2	21.3	21.9	21.9	22.4	22.9
	8H	23.1	23.6	23.6	24.0	24.6	21.8	22.3	22.3	22.8	23.4

Maximum UGR = 24.9

POLAR GRAPH



Maximum Candela = 576.585 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.)