



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75L-2-L25-8TW-DMA-DIM-UNV 4000K\_.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] 23-JUL-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-L25-8TW-DMA-DIM-UNV 4000k

[\_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	2562
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	95
Total Luminaire Watts	26.9
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	35952	31592	27440
55	31012	26362	22353
65	26111	21247	17774
75	20514	16165	13613
85	14037	10106	9545

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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>	1141.319	1141.319	1141.319	1141.319	1141.319
<b>5</b>	1164.545	1138.738	1134.867	1124.544	1115.512
<b>10</b>	1142.609	1122.609	1113.576	1104.544	1090.995
<b>15</b>	1107.770	1091.640	1076.801	1066.478	1047.768
<b>20</b>	1061.317	1045.833	1026.477	1009.703	988.412
<b>25</b>	1001.961	985.831	958.089	938.733	910.345
<b>30</b>	933.572	914.216	877.441	854.860	818.730
<b>35</b>	854.215	832.924	788.407	756.148	722.599
<b>40</b>	764.535	741.954	694.211	654.210	619.370
<b>45</b>	670.339	642.597	589.047	555.498	511.626
<b>50</b>	570.982	547.111	490.980	454.205	420.011
<b>55</b>	469.044	454.205	398.720	362.590	338.073
<b>60</b>	374.848	361.945	314.201	285.168	264.523
<b>65</b>	290.975	275.491	236.780	217.425	198.069
<b>70</b>	213.554	194.198	167.746	151.617	140.004
<b>75</b>	140.004	123.874	110.325	95.486	92.906
<b>80</b>	80.647	67.098	60.002	52.259	53.550
<b>85</b>	32.259	23.226	23.226	19.355	21.936
<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	411.19	N.A.	16.00
0-30	852.43	N.A.	33.30
0-40	1346.77	N.A.	52.60
0-60	2169.84	N.A.	84.70
0-80	2532.87	N.A.	98.90
0-90	2562.28	N.A.	100.00
10-90	2454.62	N.A.	95.80
20-40	935.58	N.A.	36.50
20-50	1395.00	N.A.	54.40
40-70	1065.5	N.A.	41.60
60-80	363.03	N.A.	14.20
70-80	120.59	N.A.	4.70
80-90	29.41	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	2562.28	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	107.66
10-20	303.53
20-30	441.24
30-40	494.34
40-50	459.42
50-60	363.65
60-70	242.43
70-80	120.59
80-90	29.41
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	118	118	118	118	116	116	116	116	110	110	110	106	106	106	101	101	101	99
1	109	105	101	98	107	103	99	96	98	96	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	63
4	85	74	65	59	82	72	65	59	70	63	58	68	62	57	65	61	56	54
5	78	66	58	52	76	65	57	51	63	56	51	61	55	50	59	54	50	48
6	73	60	52	46	71	59	51	45	57	50	45	56	49	45	54	49	44	42
7	68	55	46	41	66	54	46	40	52	45	40	51	45	40	50	44	40	38
8	63	50	42	37	62	49	42	36	48	41	36	47	41	36	46	40	36	34
9	59	46	38	33	58	46	38	33	45	38	33	43	37	33	42	37	33	31
10	55	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28

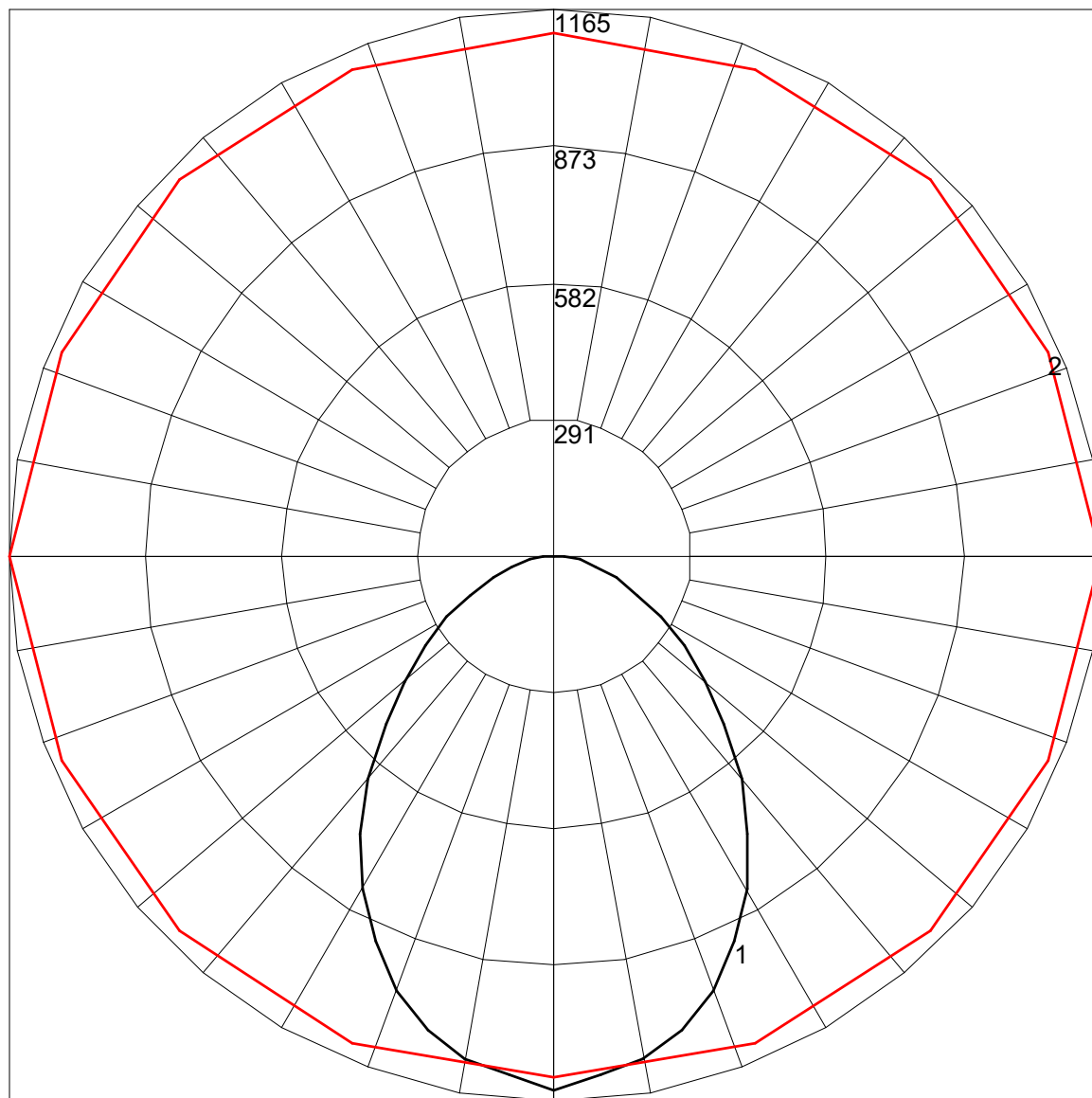
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**UGR TABLE - CORRECTED**

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	23.9	25.5	24.3	25.8	26.1	22.2	23.7	22.5	24.0	24.3
	3H	25.4	26.8	25.8	27.1	27.5	23.5	24.9	23.9	25.2	25.5
	4H	25.9	27.2	26.3	27.6	27.9	23.9	25.2	24.3	25.5	25.9
	6H	26.3	27.5	26.7	27.8	28.2	24.2	25.4	24.6	25.8	26.2
	8H	26.4	27.5	26.8	27.9	28.3	24.3	25.4	24.7	25.8	26.2
	12H	26.4	27.5	26.9	27.9	28.3	24.3	25.4	24.8	25.8	26.2
4H	2H	24.2	25.5	24.6	25.9	26.3	22.8	24.1	23.2	24.5	24.8
	3H	25.9	27.0	26.4	27.4	27.8	24.3	25.4	24.7	25.8	26.2
	4H	26.6	27.5	27.0	27.9	28.4	24.8	25.8	25.3	26.2	26.7
	6H	27.0	27.9	27.5	28.3	28.8	25.2	26.1	25.7	26.5	27.0
	8H	27.2	28.0	27.6	28.4	28.9	25.3	26.1	25.8	26.6	27.0
	12H	27.3	28.0	27.7	28.4	28.9	25.4	26.1	25.9	26.6	27.1
8H	4H	26.7	27.5	27.1	27.9	28.4	25.1	25.9	25.6	26.3	26.8
	6H	27.2	27.9	27.7	28.4	28.8	25.6	26.2	26.1	26.7	27.2
	8H	27.4	28.0	27.9	28.5	29.0	25.8	26.3	26.3	26.8	27.3
	12H	27.6	28.1	28.1	28.6	29.1	25.9	26.4	26.4	26.9	27.4
12H	4H	26.7	27.4	27.2	27.9	28.3	25.1	25.8	25.6	26.3	26.8
	6H	27.2	27.8	27.8	28.3	28.8	25.6	26.2	26.2	26.7	27.2
	8H	27.5	28.0	28.0	28.5	29.0	25.8	26.3	26.3	26.8	27.4

Maximum UGR = 29.1

POLAR GRAPH



Maximum Candela = 1164.545 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.)