



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75L-2-L20-840-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] 24 FEB, 2022

[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-L20-840-DMA-DIM-UNV

[\_SEARCH\_SOURCE]TYPE]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	2085
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	123
Total Luminaire Watts	17
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	29258	25710	22331
55	25238	21454	18191
65	21249	17292	14465
75	16695	13156	11078
85	11423	8225	7768

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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>	928.825	928.825	928.825	928.825	928.825
<b>5</b>	947.727	926.725	923.575	915.174	907.823
<b>10</b>	929.875	913.598	906.248	898.897	887.871
<b>15</b>	901.522	888.396	876.319	867.919	852.692
<b>20</b>	863.718	851.117	835.365	821.714	804.387
<b>25</b>	815.413	802.286	779.709	763.957	740.855
<b>30</b>	759.757	744.005	714.077	695.700	666.297
<b>35</b>	695.175	677.848	641.619	615.366	588.063
<b>40</b>	622.192	603.815	564.961	532.407	504.054
<b>45</b>	545.534	522.956	479.377	452.074	416.370
<b>50</b>	464.675	445.248	399.568	369.640	341.812
<b>55</b>	381.716	369.640	324.485	295.082	275.130
<b>60</b>	305.058	294.557	255.703	232.075	215.273
<b>65</b>	236.801	224.199	192.696	176.944	161.192
<b>70</b>	173.794	158.042	136.515	123.388	113.937
<b>75</b>	113.937	100.811	89.785	77.708	75.608
<b>80</b>	65.632	54.606	48.830	42.530	43.580
<b>85</b>	26.253	18.902	18.902	15.752	17.852
<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	334.64	N.A.	16.00
0-30	693.72	N.A.	33.30
0-40	1096.02	N.A.	52.60
0-60	1765.86	N.A.	84.70
0-80	2061.29	N.A.	98.90
0-90	2085.23	N.A.	100.00
10-90	1997.61	N.A.	95.80
20-40	761.39	N.A.	36.50
20-50	1135.28	N.A.	54.40
40-70	867.13	N.A.	41.60
60-80	295.44	N.A.	14.20
70-80	98.14	N.A.	4.70
80-90	23.94	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	2085.23	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	87.61
10-20	247.02
20-30	359.09
30-40	402.30
40-50	373.89
50-60	295.94
60-70	197.29
70-80	98.14
80-90	23.94
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	123	123	123	123	120	120	120	120	114	114	114	110	110	110	105	105	105	103
1	113	109	105	101	110	106	103	100	102	99	96	98	96	93	94	92	91	89
2	104	96	90	84	101	94	88	83	91	86	81	87	83	79	84	81	78	76
3	95	85	77	71	93	84	76	71	81	74	69	78	73	68	75	71	67	65
4	88	76	68	61	86	75	67	61	72	66	60	70	64	59	68	63	59	56
5	81	69	60	54	79	68	59	53	65	58	53	63	57	52	62	56	52	49
6	75	62	53	47	73	61	53	47	59	52	47	58	51	46	56	50	46	44
7	70	57	48	42	68	56	48	42	54	47	42	53	46	41	52	46	41	39
8	65	52	44	38	64	51	43	38	50	43	38	49	42	37	48	42	37	35
9	61	48	40	34	60	47	40	34	46	39	34	45	39	34	44	38	34	32
10	57	44	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29

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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	23.0	24.6	23.4	24.9	25.2	21.3	22.8	21.6	23.1	23.4
	3H	24.5	25.9	24.9	26.2	26.6	22.6	24.0	23.0	24.3	24.6
	4H	25.0	26.3	25.4	26.7	27.0	23.0	24.3	23.4	24.6	25.0
	6H	25.4	26.6	25.8	26.9	27.3	23.3	24.5	23.7	24.9	25.3
	8H	25.5	26.6	25.9	27.0	27.4	23.4	24.5	23.8	24.9	25.3
	12H	25.5	26.6	26.0	27.0	27.4	23.4	24.5	23.9	24.9	25.3

UGR Viewed Endwise

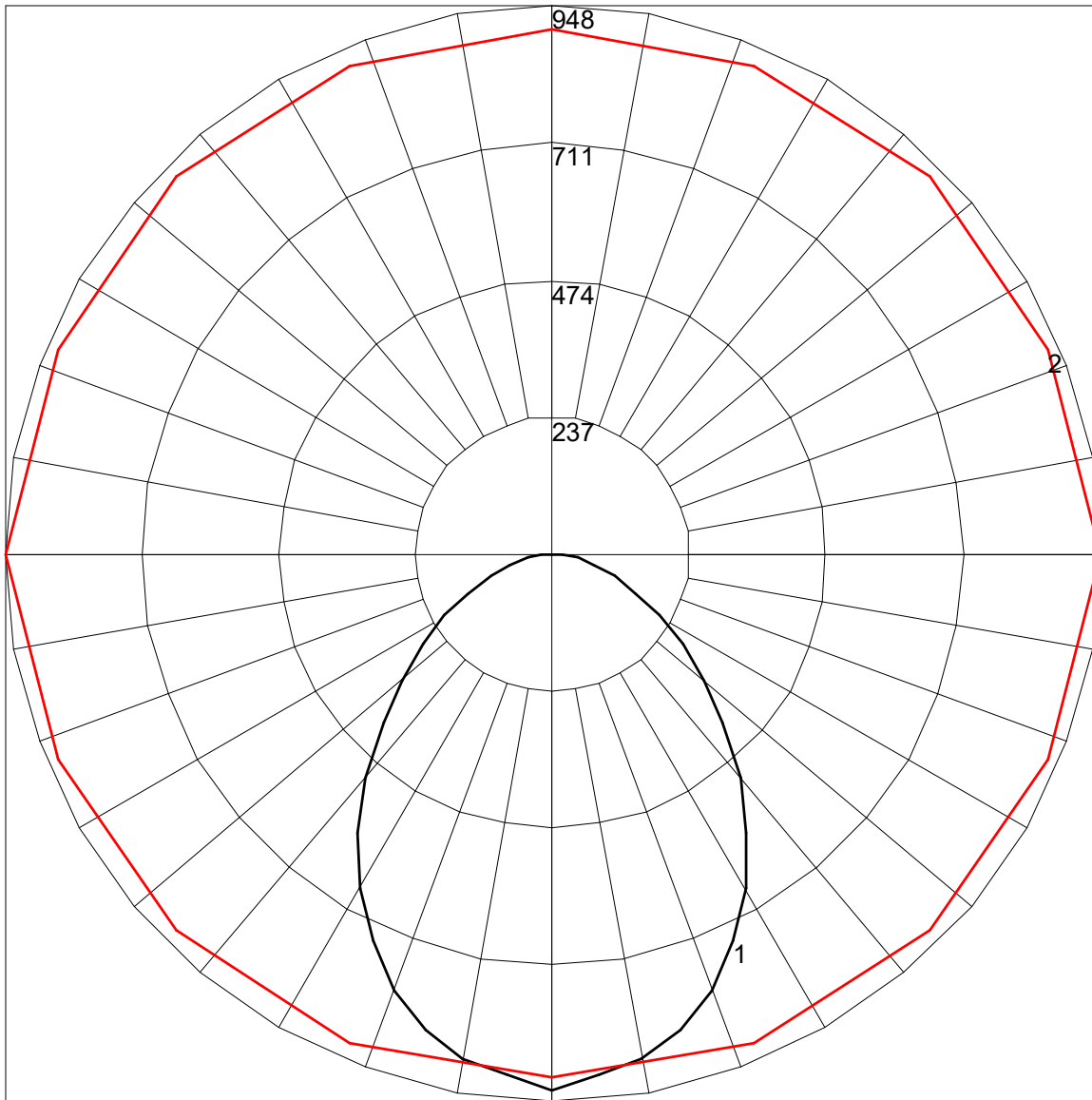
4H	2H	23.3	24.6	23.7	25.0	25.4	21.9	23.2	22.3	23.6	23.9
	3H	25.0	26.1	25.5	26.5	26.9	23.4	24.5	23.8	24.9	25.3
	4H	25.7	26.6	26.1	27.0	27.5	23.9	24.9	24.4	25.3	25.8
	6H	26.1	27.0	26.6	27.4	27.9	24.3	25.2	24.8	25.6	26.1
	8H	26.3	27.1	26.7	27.5	28.0	24.4	25.2	24.9	25.7	26.1
	12H	26.4	27.1	26.8	27.5	28.0	24.5	25.2	25.0	25.7	26.2

8H	4H	25.8	26.6	26.2	27.0	27.5	24.2	25.0	24.7	25.4	25.9
	6H	26.3	27.0	26.8	27.5	27.9	24.7	25.3	25.2	25.8	26.3
	8H	26.5	27.1	27.0	27.6	28.1	24.9	25.4	25.4	25.9	26.4
	12H	26.7	27.2	27.2	27.7	28.2	25.0	25.5	25.5	26.0	26.5

12H	4H	25.8	26.5	26.3	27.0	27.4	24.2	24.9	24.7	25.4	25.9
	6H	26.3	26.9	26.9	27.4	27.9	24.7	25.3	25.3	25.8	26.3
	8H	26.6	27.1	27.1	27.6	28.1	24.9	25.4	25.4	25.9	26.5

Maximum UGR = 28.2

POLAR GRAPH



Maximum Candela = 947.727 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.)