



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75L-8-L160-840-AF12125-EM-10W-DIM-UNV\_EM MODE ONLY.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM BALLABS TEST NO. 17756.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 05/30/2023

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 8' LED STRIP LUMINAIRE

[MORE] WHITE REFLECTOR w/ PRISMATIC LENS

[MORE] EM MODE ONLY

[LUMCAT] 75L-8-L160-840-AF12125-EM-10W-DIM-UNV EM MODE ONLY

[LAMPCAT] HLMX 80 CRI 4000K CCT

[\_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	1432
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	143
Total Luminaire Watts	10
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.14
Spacing Criterion (Diagonal)	1.22
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	7.44 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	4897	3650	2832
55	3926	2627	2134
65	2717	1724	1776
75	2229	1450	1814
85	1952	1464	1739

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : 75L-8-L160-840-AF12125-EM-10W-DIM-UNV\_EM MODE ONLY.IES****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>	688.390	688.390	688.390	688.390	688.390
<b>5</b>	700.270	687.950	686.630	681.570	679.150
<b>10</b>	692.350	680.470	678.270	674.970	671.669
<b>15</b>	678.050	665.949	666.609	664.409	660.669
<b>20</b>	657.149	644.609	647.909	645.269	641.309
<b>25</b>	627.449	619.529	616.229	605.669	595.328
<b>30</b>	586.968	582.568	561.668	533.288	511.727
<b>35</b>	539.008	528.887	491.047	434.946	408.106
<b>40</b>	482.907	463.107	397.766	329.565	311.524
<b>45</b>	412.066	392.926	307.124	250.584	238.263
<b>50</b>	336.165	306.244	237.823	195.803	186.563
<b>55</b>	267.964	221.323	179.303	154.662	145.642
<b>60</b>	197.783	154.222	126.942	120.342	113.302
<b>65</b>	136.622	108.242	86.681	91.301	89.321
<b>70</b>	95.921	75.021	58.961	69.521	70.841
<b>75</b>	68.641	55.001	44.661	51.921	55.881
<b>80</b>	47.081	38.281	33.220	36.301	39.601
<b>85</b>	20.240	21.560	15.180	18.700	18.040
<b>90</b>	0.000	0.000	0.000	0.000	0.000

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : 75L-8-L160-840-AF12125-EM-10W-DIM-UNV\_EM MODE ONLY.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	253.33	N.A.	17.70
0-30	533.53	N.A.	37.30
0-40	833.17	N.A.	58.20
0-60	1252.82	N.A.	87.50
0-80	1411.5	N.A.	98.60
0-90	1431.94	N.A.	100.00
10-90	1366.66	N.A.	95.40
20-40	579.83	N.A.	40.50
20-50	827.41	N.A.	57.80
40-70	521.20	N.A.	36.40
60-80	158.68	N.A.	11.10
70-80	57.14	N.A.	4.00
80-90	20.44	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	1431.94	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	65.28
10-20	188.05
20-30	280.20
30-40	299.63
40-50	247.57
50-60	172.08
60-70	101.55
70-80	57.14
80-90	20.44
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

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75L-8-L160-840-AF12125-EM-10W-DIM-UNV\_EM MODE ONLY.IES

## 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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	102	99	108	104	100	97	100	97	94	96	94	92	92	90	89	87
2	102	94	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	75
3	94	85	77	72	92	83	76	71	80	74	70	77	73	69	75	71	67	65
4	87	76	68	62	85	75	67	62	72	66	61	70	65	60	68	63	59	57
5	81	69	61	55	79	68	60	55	66	59	54	64	58	53	62	57	53	51
6	75	63	55	49	73	62	54	49	60	53	48	58	52	48	57	52	47	45
7	70	57	49	44	68	57	49	44	55	48	43	54	48	43	52	47	43	41
8	65	53	45	40	64	52	45	39	51	44	39	50	43	39	49	43	39	37
9	61	49	41	36	60	48	41	36	47	40	36	46	40	36	45	39	35	34
10	58	45	38	33	56	45	38	33	44	37	33	43	37	33	42	36	32	31

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75L-8-L160-840-AF12125-EM-10W-DIM-UNV\_EM MODE ONLY.IES

## 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	15.5	17.0	15.9	17.3	17.6	13.0	14.5	13.4	14.8	15.1
	3H	16.7	18.1	17.1	18.4	18.7	14.5	15.9	14.9	16.2	16.5
	4H	17.3	18.5	17.7	18.8	19.2	15.3	16.5	15.7	16.8	17.2
	6H	17.8	18.9	18.2	19.3	19.7	15.9	17.0	16.3	17.4	17.8
	8H	18.0	19.0	18.4	19.4	19.8	16.2	17.2	16.6	17.6	18.0
	12H	18.1	19.1	18.5	19.5	19.9	16.3	17.4	16.8	17.8	18.2

### UGR Viewed Endwise

4H	2H	15.7	16.9	16.1	17.2	17.6	13.5	14.7	13.9	15.0	15.4
	3H	17.1	18.1	17.5	18.5	18.9	15.2	16.2	15.6	16.6	17.0
	4H	17.7	18.6	18.1	19.0	19.5	16.1	17.0	16.5	17.4	17.8
	6H	18.4	19.2	18.8	19.6	20.1	16.9	17.7	17.3	18.1	18.6
	8H	18.6	19.4	19.1	19.8	20.3	17.2	18.0	17.7	18.4	18.9
	12H	18.9	19.5	19.3	20.0	20.5	17.5	18.1	17.9	18.6	19.1

8H	4H	17.8	18.6	18.3	19.0	19.5	16.3	17.1	16.8	17.5	18.0
	6H	18.6	19.2	19.1	19.7	20.2	17.3	17.9	17.8	18.4	18.9
	8H	19.0	19.5	19.5	20.0	20.5	17.7	18.3	18.2	18.8	19.3
	12H	19.3	19.8	19.8	20.3	20.9	18.1	18.6	18.6	19.1	19.6

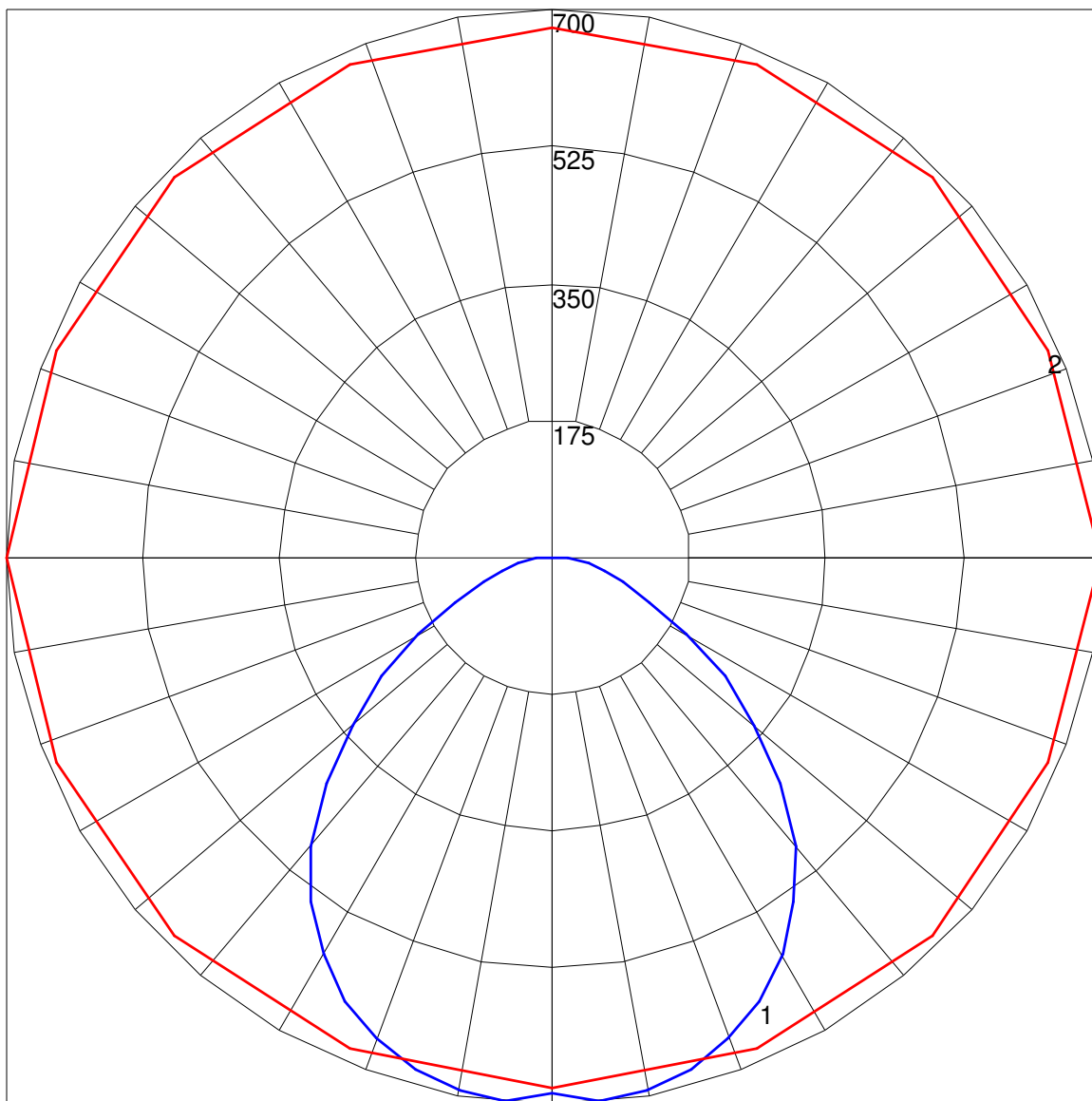
12H	4H	17.8	18.5	18.3	19.0	19.4	16.4	17.0	16.8	17.5	18.0
	6H	18.7	19.2	19.2	19.7	20.2	17.4	17.9	17.9	18.4	18.9
	8H	19.1	19.6	19.6	20.0	20.6	17.9	18.3	18.4	18.8	19.4

Maximum UGR = 20.9

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75L-8-L160-840-AF12125-EM-10W-DIM-UNV\_EM MODE ONLY.IES

## POLAR GRAPH



Maximum Candela = 700.27 Located At Horizontal Angle = 0, Vertical Angle = 5

# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)

# 2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)