



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : LPT-22-L45-840-SAF12125-(L33)-EM10WBMTD-DIM-UNV\_(EMER MODE ONLY).IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] GEN FROM BALLABS TEST NO. 18557.0  
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC  
 [ISSUEDATE] 04-26-2024  
 [MANUFAC] WILLIAMS INDOOR  
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO.64836  
 [LUMINAIRE] 2x2' LED TROFFER  
 [MORE] WITH FROSTED ACRYLIC LENS  
 [LUMCAT] LPT-22-L45-840-SAF12125-(L33)-EM10WBMTD-SD-DIM-UNV  
 [LAMPCAT] HLM 80 CRI 4000K CCT  
 [ \_SEARCH\_SOURCETYPE]LED  
 [ \_SEARCH\_APPLICATION] INDOOR,OFFICE,CLASSROOM,COMMERCIAL,DIRECT  
 [ \_SEARCH\_MOUNTING] RECESSED

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1310
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	131
Total Luminaire Watts	10
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.18
Spacing Criterion (90-270)	1.18
Spacing Criterion (Diagonal)	1.26
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.77 ft
Luminous Width (90-270)	1.77 ft
Luminous Height	0.00 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1543	1525	1506
55	1191	1126	1077
65	932	849	854
75	771	725	822
85	868	906	1070

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : LPT-22-L45-840-SAF12125-(L33)-EM10WBMTD-DIM-UNV\_(EMER 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>	591.695	591.695	591.695	591.695	591.695
<b>5</b>	592.013	591.695	591.695	591.695	591.695
<b>10</b>	579.607	578.970	578.652	578.970	578.334
<b>15</b>	561.156	560.520	561.156	561.156	561.792
<b>20</b>	540.478	540.478	541.115	541.751	542.705
<b>25</b>	501.032	500.396	501.032	502.305	503.577
<b>30</b>	460.949	460.949	460.949	461.586	462.540
<b>35</b>	422.458	422.139	422.139	422.139	423.412
<b>40</b>	366.151	364.560	364.560	363.606	364.560
<b>45</b>	316.525	314.934	312.708	308.890	308.890
<b>50</b>	254.492	252.266	246.858	239.859	238.905
<b>55</b>	198.186	194.369	187.370	180.690	179.099
<b>60</b>	151.423	146.333	140.607	136.153	135.517
<b>65</b>	114.203	109.114	104.024	104.024	104.660
<b>70</b>	82.392	79.211	74.439	79.211	81.119
<b>75</b>	57.897	57.261	54.398	59.488	61.714
<b>80</b>	40.719	40.083	40.401	43.582	46.763
<b>85</b>	21.950	21.632	22.904	26.722	27.040
<b>90</b>	0.000	0.000	0.000	0.000	0.000

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : LPT-22-L45-840-SAF12125-(L33)-EM10WBMTD-DIM-UNV\_(EMER MODE ONLY).IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	214.49	N.A.	16.40
0-30	445.70	N.A.	34.00
0-40	707.11	N.A.	54.00
0-60	1115.88	N.A.	85.20
0-80	1285.48	N.A.	98.10
0-90	1309.94	N.A.	100.00
10-90	1253.91	N.A.	95.70
20-40	492.61	N.A.	37.60
20-50	730.83	N.A.	55.80
40-70	516.05	N.A.	39.40
60-80	169.60	N.A.	12.90
70-80	62.32	N.A.	4.80
80-90	24.46	N.A.	1.90
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	1309.94	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	56.02
10-20	158.47
20-30	231.21
30-40	261.40
40-50	238.22
50-60	170.55
60-70	107.28
70-80	62.32
80-90	24.46
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 : LPT-22-L45-840-SAF12125-(L33)-EM10WBMTD-DIM-UNV\_(EMER 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	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73
3	93	83	76	70	90	81	75	69	79	73	68	76	71	67	73	69	65	63
4	86	74	66	60	83	73	66	60	71	64	59	68	63	58	66	61	57	55
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	73	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39
8	64	51	43	37	62	50	43	37	49	42	37	48	42	37	47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	34	43	38	33	32
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	31	29

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : LPT-22-L45-840-SAF12125-(L33)-EM10WBMTD-DIM-UNV\_(EMER 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	11.8	13.3	12.1	13.6	13.9	11.2	12.7	11.6	13.1	13.4
	3H	13.1	14.5	13.5	14.8	15.2	12.7	14.1	13.1	14.4	14.8
	4H	13.7	15.0	14.1	15.3	15.7	13.4	14.7	13.8	15.0	15.4
	6H	14.2	15.4	14.6	15.7	16.1	14.1	15.2	14.5	15.6	16.0
	8H	14.4	15.5	14.8	15.9	16.3	14.3	15.5	14.8	15.9	16.3
	12H	14.6	15.6	15.0	16.0	16.5	14.6	15.7	15.1	16.1	16.5

### UGR Viewed Endwise

4H	2H	12.2	13.4	12.6	13.8	14.2	11.7	13.0	12.1	13.3	13.7
	3H	13.7	14.8	14.1	15.2	15.6	13.4	14.5	13.8	14.9	15.3
	4H	14.4	15.4	14.9	15.8	16.2	14.2	15.2	14.7	15.6	16.0
	6H	15.1	15.9	15.5	16.4	16.8	15.1	15.9	15.5	16.4	16.8
	8H	15.4	16.2	15.8	16.6	17.1	15.5	16.3	15.9	16.7	17.2
	12H	15.6	16.3	16.1	16.8	17.3	15.8	16.5	16.3	17.0	17.5

8H	4H	14.7	15.5	15.1	15.9	16.4	14.5	15.3	15.0	15.7	16.2
	6H	15.5	16.2	16.0	16.7	17.1	15.5	16.2	16.0	16.7	17.1
	8H	15.9	16.5	16.4	17.0	17.5	16.0	16.6	16.5	17.1	17.6
	12H	16.3	16.8	16.8	17.3	17.8	16.6	17.1	17.1	17.6	18.1

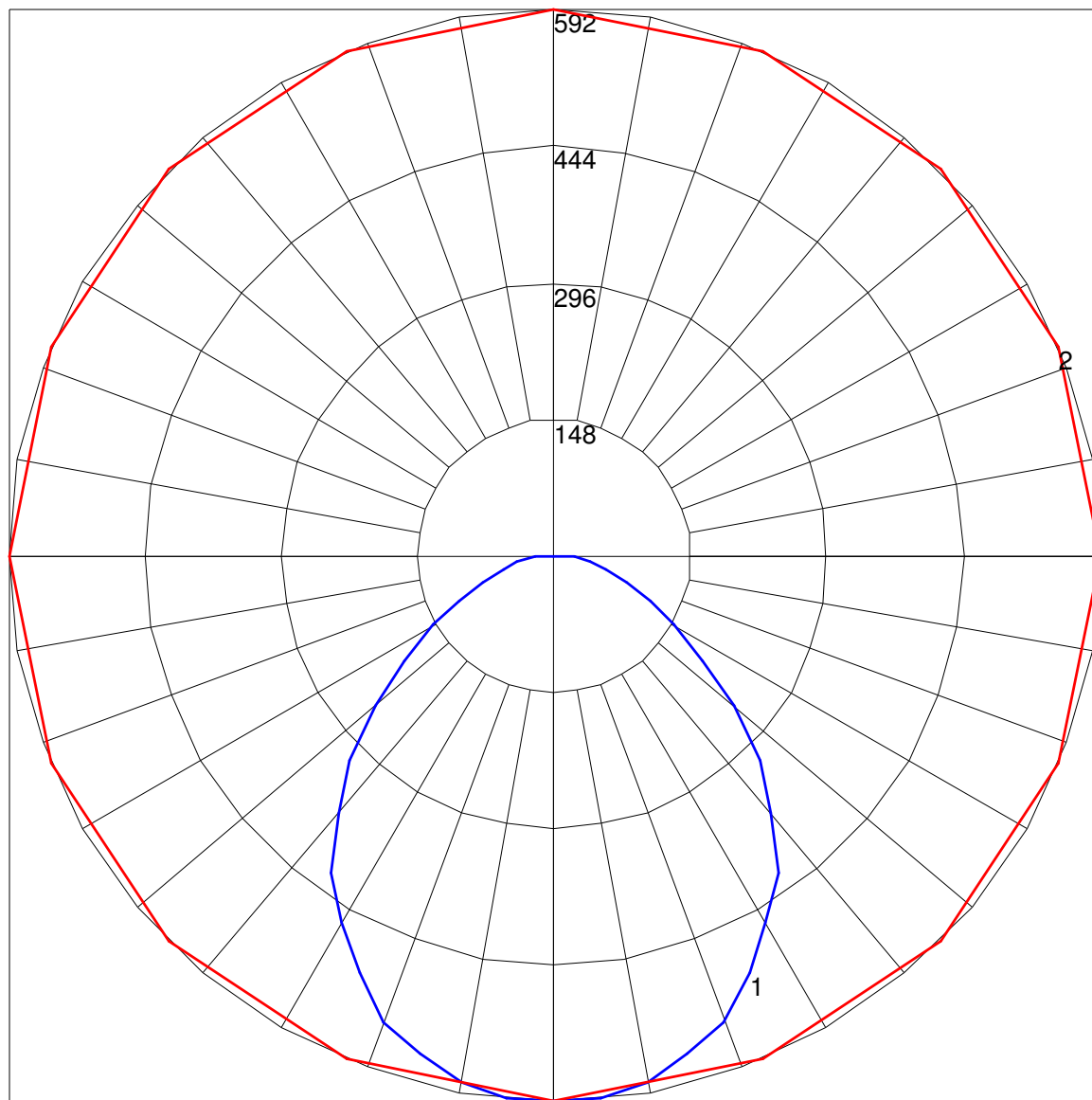
12H	4H	14.7	15.4	15.2	15.9	16.4	14.5	15.2	15.0	15.7	16.2
	6H	15.6	16.2	16.1	16.7	17.2	15.6	16.2	16.1	16.7	17.2
	8H	16.1	16.6	16.6	17.1	17.6	16.2	16.7	16.7	17.2	17.8

Maximum UGR = 18.1

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : LPT-22-L45-840-SAF12125-(L33)-EM10WBMTD-DIM-UNV\_(EMER MODE ONLY).IES

## POLAR GRAPH



Maximum Candela = 592.013 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.)