



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : LPT-24-L43-840-SA12125-(L20)-EM10WBMTD-SD-DIM-UNV\_(EMER MODE ONLY).IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST]GEN FROM BALLABS TEST NO. 18562.0  
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC  
 [ISSUEDATE] 04-26-2024  
 [MANUFAC] WILLIAMS INDOOR  
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.64836  
 [LUMINAIRE] 2x4' LED TROFFER  
 [MORE] ACRYLIC LENS  
 [LUMCAT] LPT-24-L43-840-SA12125-(L20)-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	1500
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	150
Total Luminaire Watts	10
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.16
Spacing Criterion (90-270)	1.16
Spacing Criterion (Diagonal)	1.24
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.77 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	815	803	791
55	645	611	585
65	501	455	456
75	413	393	444
85	470	476	572

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : LPT-24-L43-840-SA12125-(L20)-EM10WBMTD-SD-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>	686.216	686.216	686.216	686.216	686.216
<b>5</b>	676.059	676.059	675.370	675.370	675.370
<b>10</b>	662.975	662.975	662.286	662.286	662.975
<b>15</b>	639.734	639.734	639.734	640.422	640.422
<b>20</b>	616.148	616.148	616.148	616.837	617.525
<b>25</b>	577.585	576.724	577.585	578.962	579.651
<b>30</b>	527.143	527.143	527.143	528.520	529.553
<b>35</b>	480.317	480.317	480.317	480.317	481.694
<b>40</b>	421.611	420.578	419.545	417.824	418.857
<b>45</b>	356.364	354.126	351.371	347.412	345.862
<b>50</b>	290.944	290.256	281.648	274.762	272.696
<b>55</b>	228.796	225.525	216.573	209.859	207.621
<b>60</b>	175.427	170.779	163.032	158.040	158.040
<b>65</b>	130.839	125.846	118.960	118.272	119.304
<b>70</b>	95.375	92.276	86.078	91.415	93.653
<b>75</b>	66.108	65.764	62.837	68.690	71.101
<b>80</b>	46.827	46.138	46.827	51.130	53.885
<b>85</b>	25.307	24.274	25.651	29.955	30.816
<b>90</b>	0.000	0.000	0.000	0.000	0.000

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : LPT-24-L43-840-SA12125-(L20)-EM10WBMTD-SD-DIM-UNV\_(EMER MODE ONLY).IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	244.98	N.A.	16.30
0-30	510.19	N.A.	34.00
0-40	808.83	N.A.	53.90
0-60	1276.42	N.A.	85.10
0-80	1472.05	N.A.	98.10
0-90	1499.98	N.A.	100.00
10-90	1435.82	N.A.	95.70
20-40	563.85	N.A.	37.60
20-50	834.46	N.A.	55.60
40-70	591.24	N.A.	39.40
60-80	195.63	N.A.	13.00
70-80	71.97	N.A.	4.80
80-90	27.93	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	1499.98	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	64.15
10-20	180.82
20-30	265.21
30-40	298.64
40-50	270.61
50-60	196.98
60-70	123.65
70-80	71.97
80-90	27.93
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	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	75	69	90	81	74	69	79	73	68	76	71	67	73	69	65	63
4	85	74	66	60	83	73	65	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	52	46	72	60	52	46	58	51	46	57	50	45	55	49	45	43
7	68	56	47	41	67	55	47	41	53	46	41	52	46	41	51	45	40	39
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	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	9.7	11.3	10.1	11.6	11.9	9.2	10.7	9.6	11.0	11.3
	3H	11.1	12.5	11.5	12.8	13.1	10.6	12.0	11.0	12.3	12.7
	4H	11.6	12.9	12.0	13.2	13.6	11.3	12.6	11.7	12.9	13.3
	6H	12.1	13.3	12.5	13.7	14.1	12.0	13.2	12.4	13.5	13.9
	8H	12.3	13.4	12.7	13.8	14.2	12.3	13.4	12.7	13.8	14.2
	12H	12.5	13.6	12.9	14.0	14.4	12.6	13.6	13.0	14.0	14.4

### UGR Viewed Endwise

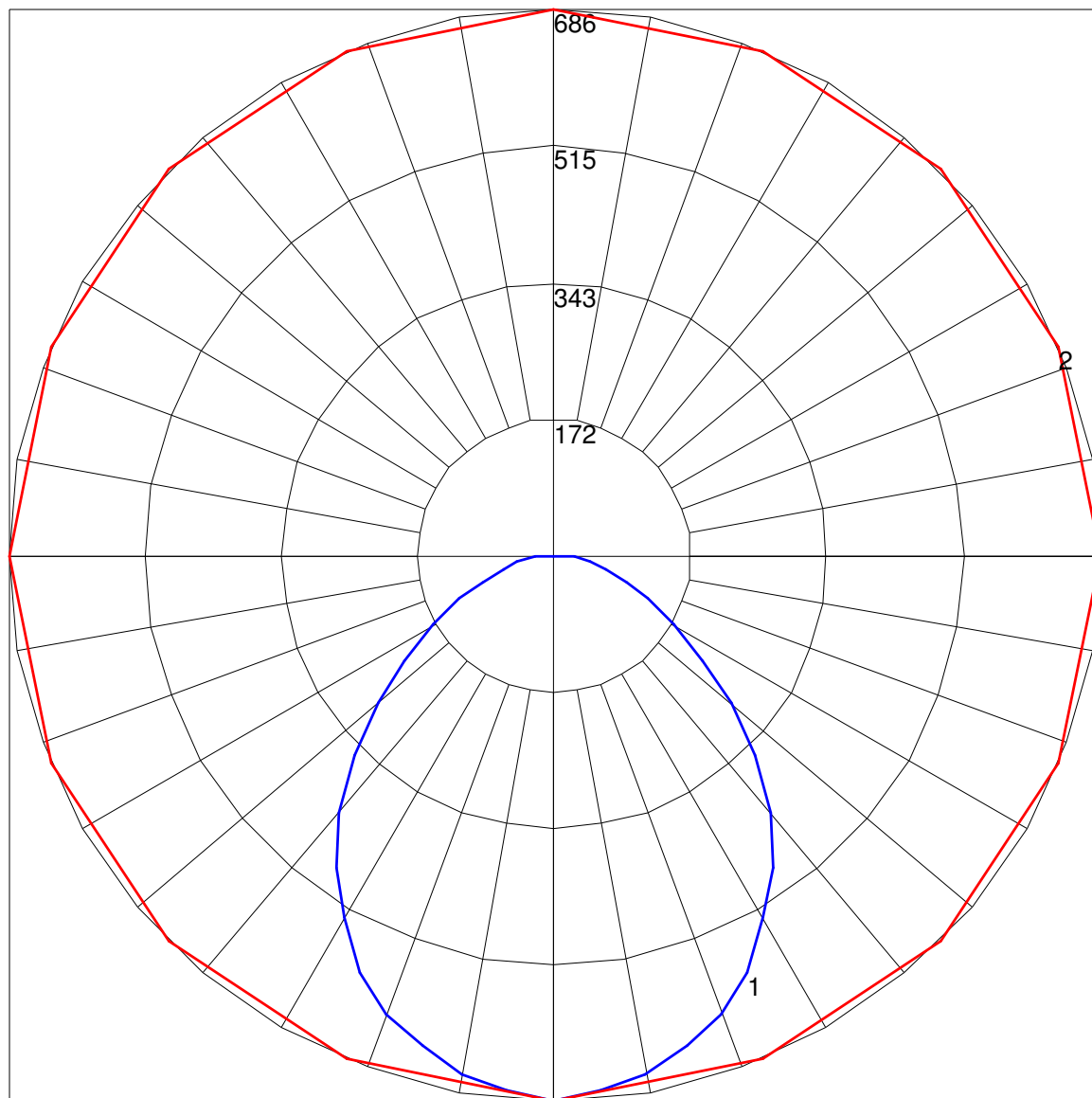
4H	2H	10.1	11.4	10.5	11.7	12.1	9.6	10.9	10.0	11.3	11.7
	3H	11.7	12.8	12.1	13.2	13.6	11.3	12.4	11.7	12.8	13.2
	4H	12.4	13.3	12.8	13.7	14.2	12.2	13.1	12.6	13.5	14.0
	6H	13.0	13.9	13.5	14.3	14.8	13.0	13.9	13.5	14.3	14.8
	8H	13.3	14.1	13.8	14.5	15.0	13.4	14.2	13.9	14.6	15.1
	12H	13.6	14.3	14.0	14.7	15.2	13.8	14.5	14.2	14.9	15.4
8H	4H	12.6	13.4	13.1	13.8	14.3	12.4	13.2	12.9	13.7	14.1
	6H	13.4	14.1	13.9	14.6	15.1	13.5	14.1	14.0	14.6	15.1
	8H	13.8	14.4	14.3	14.9	15.4	14.0	14.6	14.5	15.1	15.6
	12H	14.2	14.7	14.7	15.2	15.8	14.5	15.0	15.0	15.5	16.0
12H	4H	12.7	13.4	13.1	13.8	14.3	12.5	13.2	13.0	13.7	14.1
	6H	13.5	14.1	14.0	14.6	15.1	13.5	14.1	14.1	14.6	15.1
	8H	14.0	14.5	14.5	15.0	15.6	14.1	14.6	14.6	15.1	15.7

Maximum UGR = 16.0

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## POLAR GRAPH



Maximum Candela = 686.216 Located At Horizontal Angle = 0, Vertical Angle = 0

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

# 2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)