



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : LPT-24-L43-835-SAF12125-(L30)-EM14W-DIM-UNV\_(EMER MODE).IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST]GEN FROM BALLABS TEST NO. 18557.0  
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC  
 [ISSUE DATE] 11-07-2023  
 [MANUFAC] WILLIAMS INDOOR  
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO. 64836  
 [LUMINAIRE] 2x4' LED TROFFER  
 [MORE] WITH FROSTED ACRYLIC LENS  
 [LUMCAT] LPT-24-L43-835-SAF12125-(L30)-EM14W-DIM-UNV  
 [LAMPCAT] HLM 80 CRI 3500K 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	2044
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	146
Total Luminaire Watts	14
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)	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	1129	1116	1102
55	872	824	788
65	682	621	625
75	564	530	602
85	635	663	783

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	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
<b>0</b>	923.225	923.225	923.225	923.225	923.225
<b>5</b>	923.721	923.225	923.225	923.225	923.225
<b>10</b>	904.363	903.370	902.874	903.370	902.378
<b>15</b>	875.574	874.582	875.574	875.574	876.567
<b>20</b>	843.311	843.311	844.304	845.297	846.786
<b>25</b>	781.763	780.770	781.763	783.748	785.734
<b>30</b>	719.222	719.222	719.222	720.215	721.704
<b>35</b>	659.163	658.666	658.666	658.666	660.652
<b>40</b>	571.307	568.826	568.826	567.337	568.826
<b>45</b>	493.876	491.394	487.919	481.963	481.963
<b>50</b>	397.086	393.611	385.173	374.253	372.764
<b>55</b>	309.231	303.274	292.355	281.931	279.449
<b>60</b>	236.266	228.324	219.390	212.441	211.448
<b>65</b>	178.192	170.251	162.309	162.309	163.302
<b>70</b>	128.557	123.593	116.148	123.593	126.571
<b>75</b>	90.337	89.344	84.877	92.819	96.293
<b>80</b>	63.534	62.541	63.037	68.001	72.965
<b>85</b>	34.249	33.752	35.738	41.694	42.190
<b>90</b>	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	334.67	N.A.	16.40
0-30	695.43	N.A.	34.00
0-40	1103.3	N.A.	54.00
0-60	1741.11	N.A.	85.20
0-80	2005.74	N.A.	98.10
0-90	2043.9	N.A.	100.00
10-90	1956.49	N.A.	95.70
20-40	768.63	N.A.	37.60
20-50	1140.32	N.A.	55.80
40-70	805.19	N.A.	39.40
60-80	264.63	N.A.	12.90
70-80	97.25	N.A.	4.80
80-90	38.16	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	2043.9	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	87.42
10-20	247.26
20-30	360.76
30-40	407.87
40-50	371.70
50-60	266.11
60-70	167.39
70-80	97.25
80-90	38.16
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	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

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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	10.7	12.3	11.1	12.6	12.9	10.2	11.7	10.6	12.0	12.3
	3H	12.1	13.5	12.5	13.8	14.2	11.7	13.0	12.1	13.4	13.7
	4H	12.6	13.9	13.0	14.3	14.6	12.3	13.6	12.7	14.0	14.4
	6H	13.1	14.3	13.6	14.7	15.1	13.0	14.2	13.4	14.6	15.0
	8H	13.3	14.5	13.8	14.9	15.3	13.3	14.4	13.7	14.8	15.2
	12H	13.5	14.6	14.0	15.0	15.4	13.6	14.7	14.0	15.1	15.5

### UGR Viewed Endwise

4H	2H	11.1	12.4	11.5	12.7	13.1	10.7	11.9	11.1	12.3	12.7
	3H	12.7	13.8	13.1	14.2	14.6	12.4	13.4	12.8	13.8	14.2
	4H	13.4	14.4	13.8	14.8	15.2	13.2	14.2	13.6	14.6	15.0
	6H	14.1	14.9	14.5	15.3	15.8	14.0	14.9	14.5	15.3	15.8
	8H	14.3	15.1	14.8	15.6	16.0	14.4	15.2	14.9	15.7	16.1
	12H	14.6	15.3	15.1	15.8	16.3	14.8	15.5	15.3	16.0	16.5

8H	4H	13.6	14.4	14.1	14.9	15.3	13.5	14.3	13.9	14.7	15.2
	6H	14.5	15.1	15.0	15.6	16.1	14.5	15.1	15.0	15.6	16.1
	8H	14.9	15.5	15.4	16.0	16.4	15.0	15.6	15.5	16.1	16.6
	12H	15.2	15.8	15.7	16.2	16.8	15.5	16.0	16.0	16.5	17.1

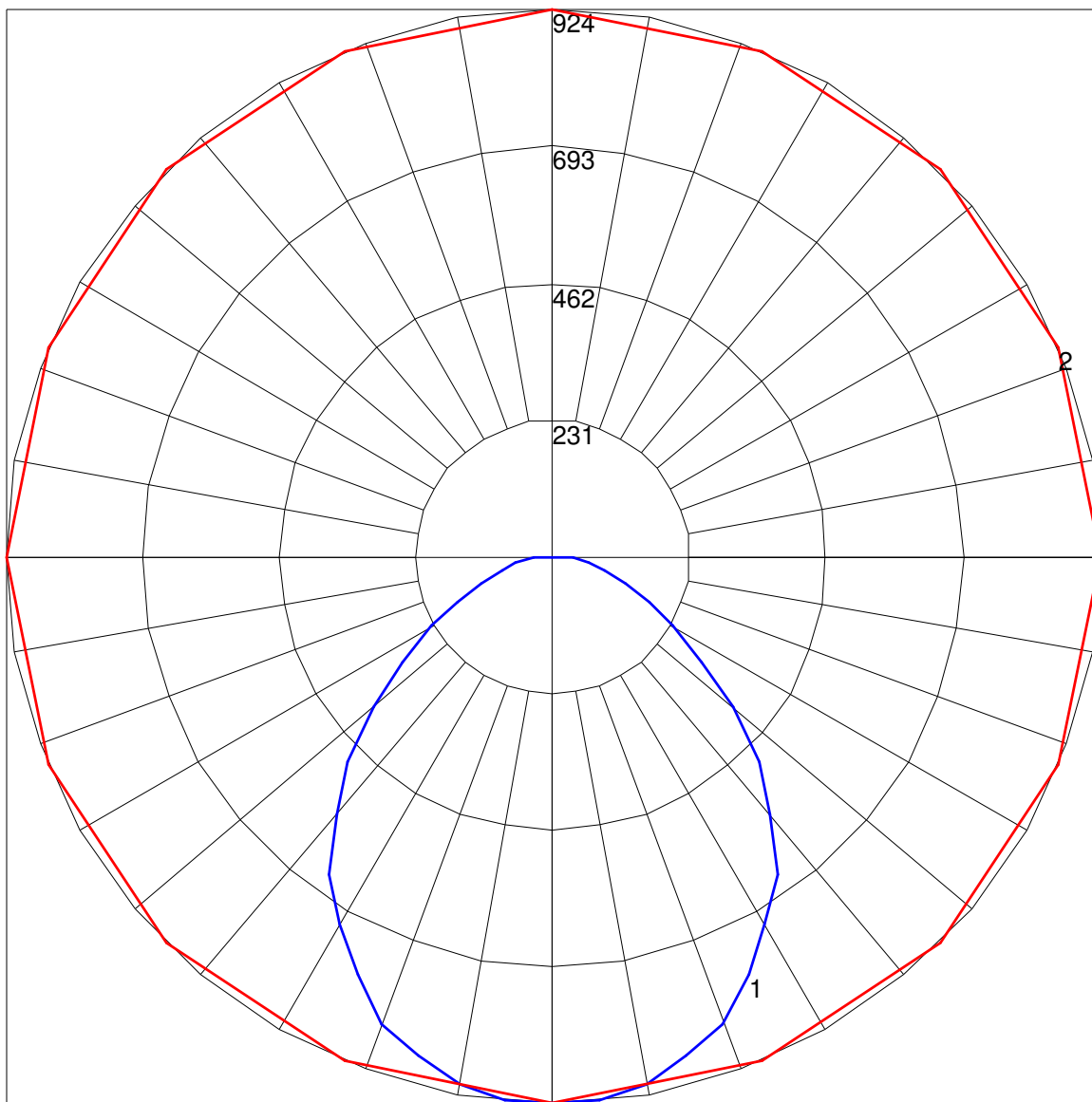
12H	4H	13.7	14.4	14.2	14.9	15.3	13.5	14.2	14.0	14.7	15.2
	6H	14.6	15.2	15.1	15.6	16.2	14.6	15.2	15.1	15.6	16.2
	8H	15.0	15.5	15.5	16.0	16.6	15.2	15.7	15.7	16.2	16.7

Maximum UGR = 17.1

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## POLAR GRAPH



Maximum Candela = 923.721 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.)