



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : LPT-24-L43-835-SA19156-(L30)-EM10W-DIM-UNV\_EM MODE.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST]GEN FROM BALLABS TEST NO. 18561.0  
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC  
 [ISSUE DATE] 10-27-2021  
 [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-SA19156-(L30)-EM10W-DIM-UNV (EM MODE)  
 [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	1317
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	132
Total Luminaire Watts	10
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.16
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	736	728	716
55	569	541	519
65	446	407	408
75	368	349	395
85	422	436	518

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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>	591.244	591.244	591.244	591.244	591.244
<b>5</b>	586.044	585.852	585.659	585.274	585.274
<b>10</b>	579.111	578.533	578.341	578.341	578.341
<b>15</b>	560.430	560.238	560.238	560.430	560.623
<b>20</b>	538.668	537.897	537.897	538.283	539.053
<b>25</b>	496.299	496.106	496.106	497.647	498.032
<b>30</b>	456.625	455.855	456.433	457.781	458.551
<b>35</b>	420.226	419.456	419.456	420.226	421.382
<b>40</b>	367.843	367.072	366.494	365.146	366.302
<b>45</b>	322.007	320.466	318.155	313.725	313.148
<b>50</b>	258.260	257.490	251.712	244.779	243.046
<b>55</b>	201.832	199.136	192.010	185.077	184.114
<b>60</b>	152.529	148.870	141.937	137.700	137.508
<b>65</b>	116.516	112.086	106.308	105.731	106.694
<b>70</b>	84.161	81.272	76.650	81.272	82.428
<b>75</b>	58.932	57.969	55.850	61.050	63.169
<b>80</b>	41.792	40.636	41.792	45.451	48.147
<b>85</b>	22.725	22.148	23.496	27.733	27.925
<b>90</b>	0.000	0.000	0.000	0.000	0.000

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : LPT-24-L43-835-SA19156-(L30)-EM10W-DIM-UNV\_EM MODE.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	213.81	N.A.	16.20
0-30	443.05	N.A.	33.60
0-40	703.39	N.A.	53.40
0-60	1118.94	N.A.	84.90
0-80	1292.1	N.A.	98.10
0-90	1317.31	N.A.	100.00
10-90	1261.6	N.A.	95.80
20-40	489.58	N.A.	37.20
20-50	731.12	N.A.	55.50
40-70	524.89	N.A.	39.80
60-80	173.17	N.A.	13.10
70-80	63.83	N.A.	4.80
80-90	25.20	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	1317.31	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	55.71
10-20	158.09
20-30	229.24
30-40	260.34
40-50	241.54
50-60	174.01
60-70	109.33
70-80	63.83
80-90	25.20
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	99	96	99	96	93	95	93	90	91	89	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	78	72	68	76	71	66	73	69	65	63
4	85	74	66	60	83	73	65	59	70	64	59	68	62	58	66	61	57	55
5	79	67	59	52	77	66	58	52	64	57	51	62	56	51	60	55	50	48
6	73	61	52	46	71	60	52	46	58	51	46	56	50	45	55	49	45	43
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	38
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	46	41	36	35
9	60	47	39	34	58	46	39	34	45	38	33	44	38	33	43	37	33	31
10	56	43	36	31	55	43	36	31	42	35	31	41	35	30	40	34	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	9.3	10.9	9.7	11.2	11.5	8.8	10.3	9.1	10.6	10.9
	3H	10.7	12.1	11.1	12.4	12.8	10.3	11.6	10.7	12.0	12.3
	4H	11.2	12.5	11.6	12.9	13.3	10.9	12.2	11.3	12.6	13.0
	6H	11.7	12.9	12.1	13.3	13.7	11.6	12.8	12.0	13.2	13.6
	8H	12.0	13.1	12.4	13.5	13.9	11.9	13.1	12.4	13.5	13.9
	12H	12.1	13.2	12.6	13.6	14.0	12.2	13.3	12.6	13.7	14.1

### UGR Viewed Endwise

4H	2H	9.7	11.0	10.1	11.3	11.7	9.3	10.5	9.7	10.9	11.3
	3H	11.3	12.4	11.7	12.8	13.2	11.0	12.0	11.4	12.4	12.8
	4H	12.0	13.0	12.4	13.4	13.8	11.8	12.8	12.2	13.2	13.6
	6H	12.7	13.5	13.1	13.9	14.4	12.7	13.5	13.1	14.0	14.4
	8H	12.9	13.7	13.4	14.2	14.7	13.1	13.9	13.5	14.3	14.8
	12H	13.2	13.9	13.7	14.4	14.9	13.4	14.1	13.9	14.6	15.1

8H	4H	12.2	13.0	12.7	13.5	13.9	12.1	12.9	12.5	13.3	13.8
	6H	13.1	13.7	13.6	14.2	14.7	13.1	13.8	13.6	14.3	14.8
	8H	13.5	14.1	14.0	14.6	15.1	13.6	14.2	14.2	14.7	15.2
	12H	13.9	14.4	14.4	14.9	15.4	14.2	14.7	14.7	15.2	15.8

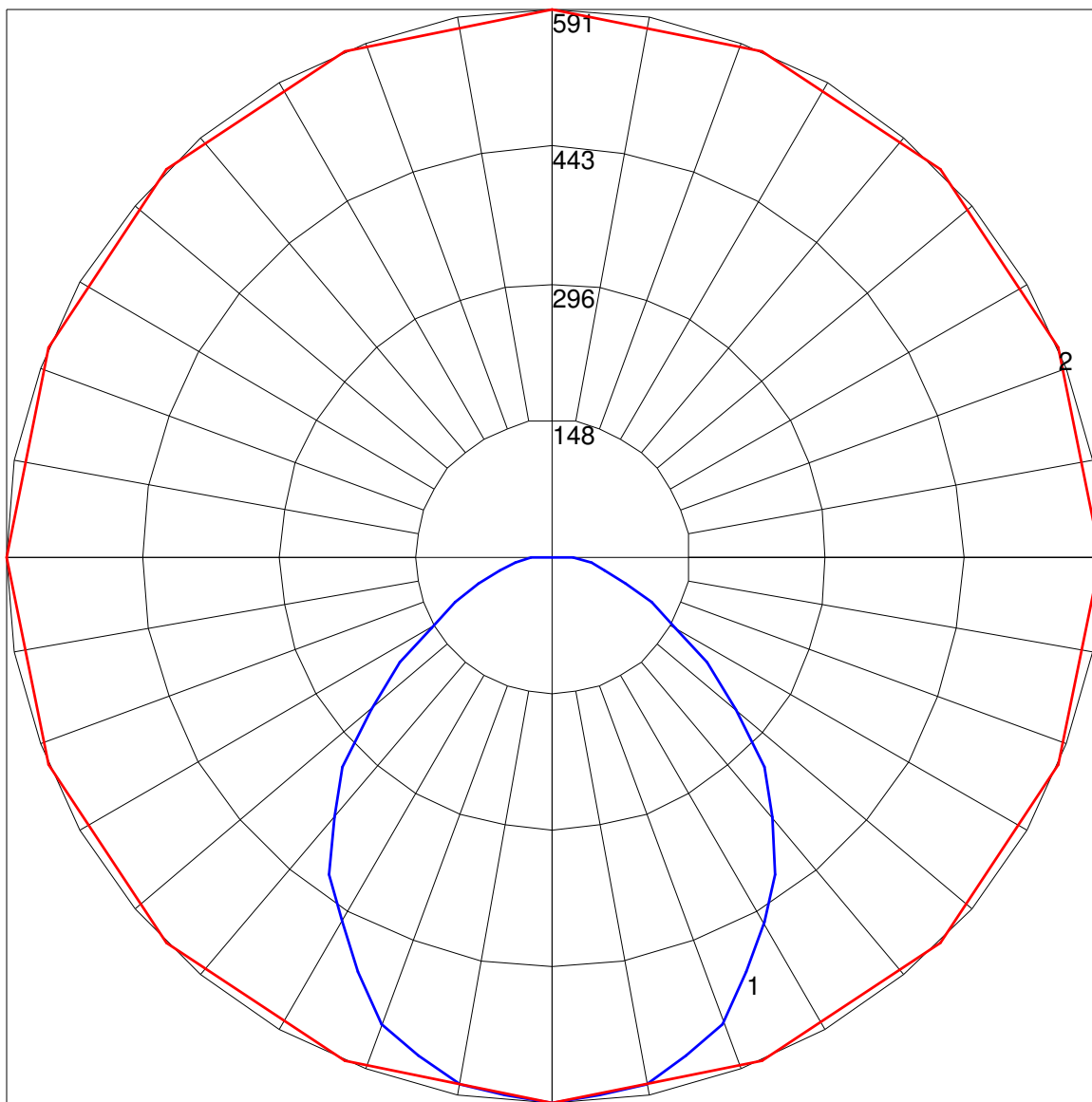
12H	4H	12.3	13.0	12.8	13.5	14.0	12.1	12.8	12.6	13.3	13.8
	6H	13.2	13.8	13.7	14.2	14.8	13.2	13.8	13.7	14.3	14.8
	8H	13.6	14.2	14.2	14.6	15.2	13.8	14.3	14.3	14.8	15.4

Maximum UGR = 15.8

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## POLAR GRAPH



Maximum Candela = 591.244 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.)