



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : LPT-24-L43-835-SAF12125-(L38)-DIM-UNV\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST]GEN FROM BALLABS TEST NO. 18562.0  
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC  
 [ISSUE DATE] 05-20-2020  
 [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-(L38)-DIM-UNV  
 [LAMPCAT] HLM 80 CRI 3500K CCT  
 [ \_SEARCH\_SOURCE TYPE]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	3872
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	141
Total Luminaire Watts	27.4
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	2104	2074	2042
55	1665	1576	1511
65	1292	1175	1178
75	1066	1013	1147
85	1212	1228	1476

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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>	1771.352	1771.352	1771.352	1771.352	1771.352
<b>5</b>	1745.133	1745.133	1743.355	1743.355	1743.355
<b>10</b>	1711.359	1711.359	1709.581	1709.581	1711.359
<b>15</b>	1651.366	1651.366	1651.366	1653.143	1653.143
<b>20</b>	1590.484	1590.484	1590.484	1592.262	1594.039
<b>25</b>	1490.940	1488.718	1490.940	1494.495	1496.273
<b>30</b>	1360.733	1360.733	1360.733	1364.288	1366.954
<b>35</b>	1239.858	1239.858	1239.858	1239.858	1243.413
<b>40</b>	1088.319	1085.653	1082.987	1078.543	1081.209
<b>45</b>	919.894	914.117	907.007	896.786	892.786
<b>50</b>	751.025	749.247	727.028	709.252	703.919
<b>55</b>	590.599	582.155	559.047	541.716	535.938
<b>60</b>	452.837	440.838	420.841	407.953	407.953
<b>65</b>	337.739	324.852	307.076	305.298	307.965
<b>70</b>	246.194	238.195	222.197	235.973	241.750
<b>75</b>	170.647	169.758	162.204	177.313	183.534
<b>80</b>	120.875	119.097	120.875	131.985	139.095
<b>85</b>	65.326	62.659	66.215	77.324	79.546
<b>90</b>	0.000	0.000	0.000	0.000	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	632.37	N.A.	16.30
0-30	1316.97	N.A.	34.00
0-40	2087.86	N.A.	53.90
0-60	3294.87	N.A.	85.10
0-80	3799.85	N.A.	98.10
0-90	3871.94	N.A.	100.00
10-90	3706.34	N.A.	95.70
20-40	1455.49	N.A.	37.60
20-50	2154.02	N.A.	55.60
40-70	1526.2	N.A.	39.40
60-80	504.98	N.A.	13.00
70-80	185.79	N.A.	4.80
80-90	72.10	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	3871.94	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	165.60
10-20	466.76
20-30	684.60
30-40	770.89
40-50	698.53
50-60	508.48
60-70	319.19
70-80	185.79
80-90	72.10
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

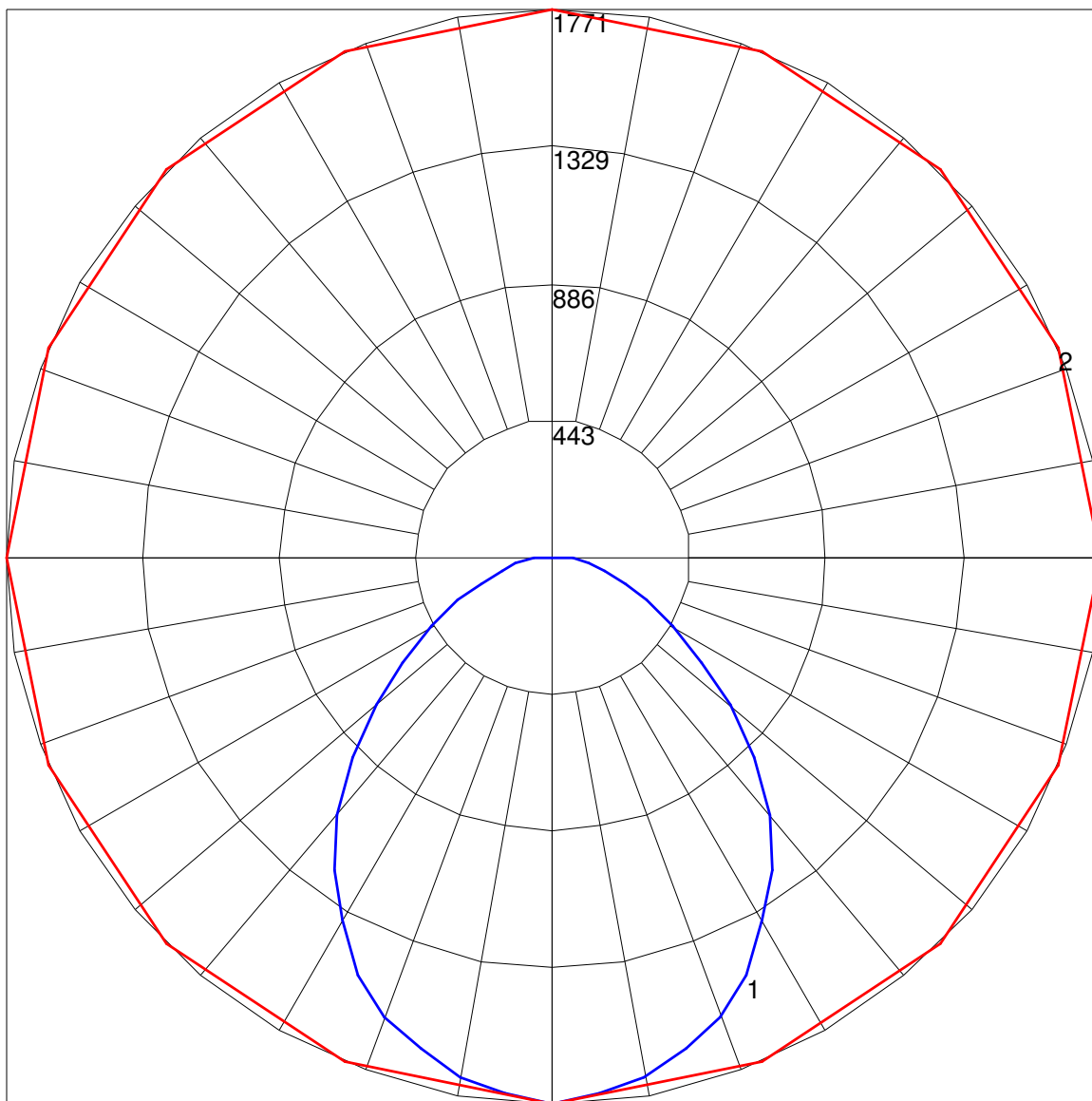
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**UGR TABLE - CORRECTED**

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					UGR Viewed Endwise				
X=2H	Y=2H	13.0	14.6	13.4	14.9	15.2	12.5	14.0	12.9	14.3	14.6
	3H	14.4	15.8	14.8	16.1	16.4	13.9	15.3	14.3	15.6	16.0
	4H	14.9	16.2	15.3	16.5	16.9	14.6	15.9	15.0	16.2	16.6
	6H	15.4	16.6	15.8	17.0	17.4	15.3	16.5	15.7	16.8	17.2
	8H	15.6	16.7	16.0	17.1	17.5	15.6	16.7	16.0	17.1	17.5
	12H	15.8	16.9	16.2	17.3	17.7	15.9	16.9	16.3	17.3	17.7
4H	2H	13.4	14.7	13.8	15.0	15.4	12.9	14.2	13.3	14.6	15.0
	3H	15.0	16.1	15.4	16.5	16.9	14.6	15.7	15.0	16.1	16.5
	4H	15.7	16.6	16.1	17.0	17.5	15.5	16.4	15.9	16.8	17.3
	6H	16.3	17.2	16.8	17.6	18.1	16.3	17.2	16.8	17.6	18.1
	8H	16.6	17.4	17.1	17.8	18.3	16.7	17.5	17.2	17.9	18.4
	12H	16.9	17.6	17.3	18.0	18.5	17.1	17.8	17.5	18.2	18.7
8H	4H	15.9	16.7	16.4	17.1	17.6	15.7	16.5	16.2	17.0	17.4
	6H	16.7	17.4	17.2	17.9	18.4	16.8	17.4	17.3	17.9	18.4
	8H	17.1	17.7	17.6	18.2	18.7	17.3	17.9	17.8	18.4	18.9
	12H	17.5	18.0	18.0	18.5	19.1	17.8	18.3	18.3	18.8	19.3
12H	4H	16.0	16.7	16.4	17.1	17.6	15.8	16.5	16.3	17.0	17.4
	6H	16.8	17.4	17.3	17.9	18.4	16.8	17.4	17.4	17.9	18.4
	8H	17.3	17.8	17.8	18.3	18.9	17.4	17.9	17.9	18.4	19.0

Maximum UGR = 19.3

POLAR GRAPH



Maximum Candela = 1771.352 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.)