



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : LPT-24-L43-835-SAF12125-(L30)-DIM-UNV\_.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)-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	3019
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	146
Total Luminaire Watts	20.7
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	1668	1648	1628
55	1288	1217	1164
65	1007	917	923
75	834	783	889
85	938	979	1156

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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>	1363.609	1363.609	1363.609	1363.609	1363.609
<b>5</b>	1364.342	1363.609	1363.609	1363.609	1363.609
<b>10</b>	1335.750	1334.284	1333.551	1334.284	1332.817
<b>15</b>	1293.229	1291.763	1293.229	1293.229	1294.695
<b>20</b>	1245.576	1245.576	1247.042	1248.508	1250.708
<b>25</b>	1154.669	1153.202	1154.669	1157.601	1160.534
<b>30</b>	1062.295	1062.295	1062.295	1063.761	1065.961
<b>35</b>	973.587	972.854	972.854	972.854	975.787
<b>40</b>	843.824	840.159	840.159	837.959	840.159
<b>45</b>	729.457	725.792	720.660	711.862	711.862
<b>50</b>	586.498	581.366	568.903	552.775	550.575
<b>55</b>	456.736	447.938	431.809	416.414	412.748
<b>60</b>	348.966	337.237	324.040	313.777	312.310
<b>65</b>	263.191	251.461	239.731	239.731	241.197
<b>70</b>	189.879	182.548	171.551	182.548	186.946
<b>75</b>	133.428	131.962	125.364	137.094	142.226
<b>80</b>	93.840	92.373	93.107	100.438	107.769
<b>85</b>	50.585	49.852	52.785	61.582	62.315
<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	494.32	N.A.	16.40
0-30	1027.16	N.A.	34.00
0-40	1629.58	N.A.	54.00
0-60	2571.63	N.A.	85.20
0-80	2962.49	N.A.	98.10
0-90	3018.86	N.A.	100.00
10-90	2889.74	N.A.	95.70
20-40	1135.27	N.A.	37.60
20-50	1684.27	N.A.	55.80
40-70	1189.28	N.A.	39.40
60-80	390.87	N.A.	12.90
70-80	143.63	N.A.	4.80
80-90	56.37	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	3018.86	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	129.11
10-20	365.20
20-30	532.84
30-40	602.43
40-50	549.00
50-60	393.04
60-70	247.23
70-80	143.63
80-90	56.37
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

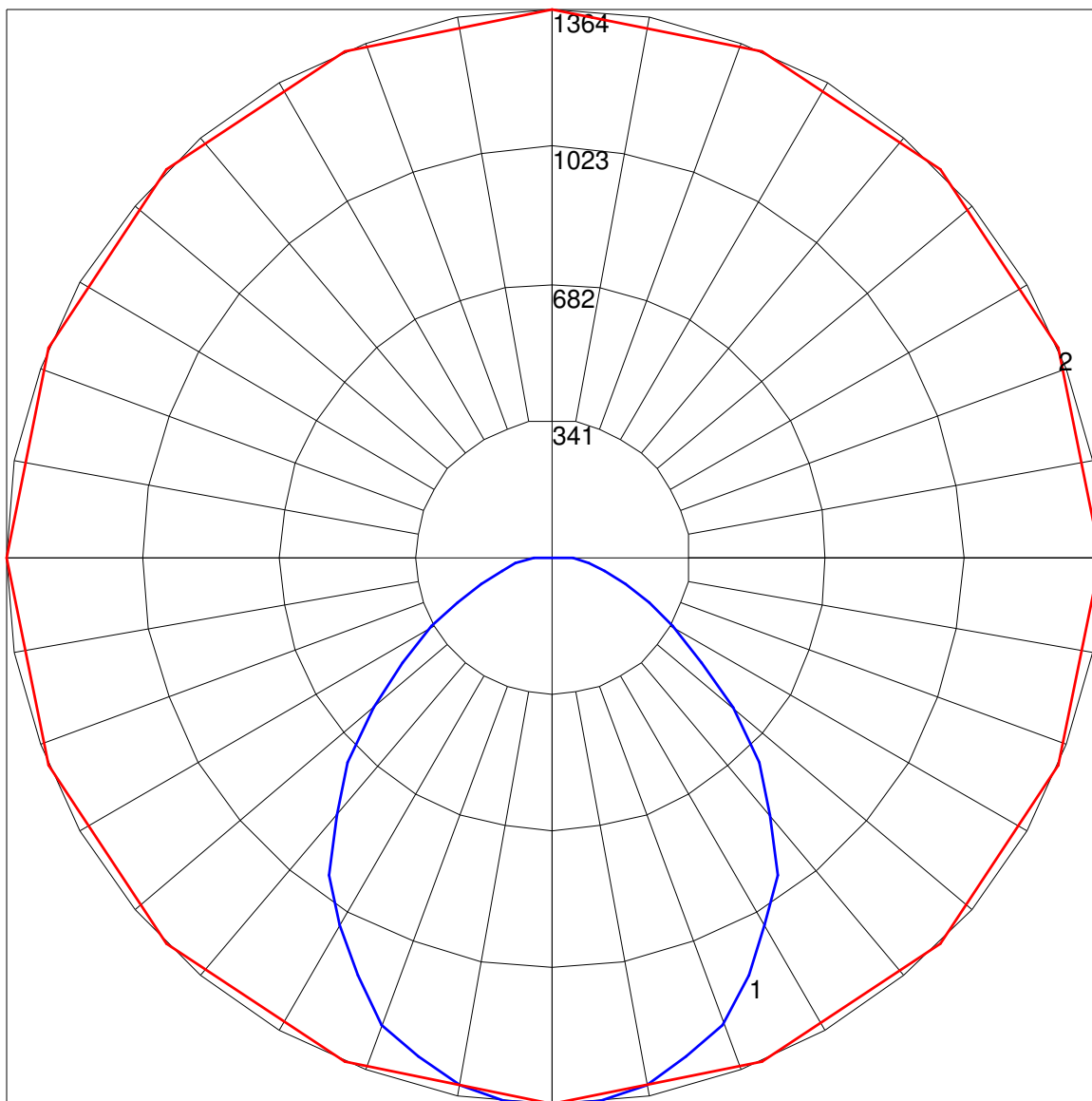
### Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	12.0	13.6	12.4	13.9	14.2	11.5	13.0	11.9	13.3	13.6
	3H	13.4	14.8	13.8	15.1	15.5	13.0	14.3	13.4	14.7	15.0
	4H	13.9	15.2	14.3	15.6	15.9	13.6	14.9	14.0	15.3	15.7
	6H	14.4	15.6	14.9	16.0	16.4	14.3	15.5	14.7	15.9	16.3
	8H	14.6	15.8	15.1	16.2	16.6	14.6	15.7	15.0	16.1	16.5
	12H	14.8	15.9	15.3	16.3	16.7	14.9	16.0	15.3	16.4	16.8
4H	2H	12.4	13.7	12.8	14.0	14.4	12.0	13.2	12.4	13.6	14.0
	3H	14.0	15.1	14.4	15.5	15.9	13.7	14.7	14.1	15.1	15.5
	4H	14.7	15.7	15.1	16.1	16.5	14.5	15.5	14.9	15.9	16.3
	6H	15.4	16.2	15.8	16.6	17.1	15.3	16.2	15.8	16.6	17.1
	8H	15.6	16.4	16.1	16.9	17.3	15.7	16.5	16.2	17.0	17.4
	12H	15.9	16.6	16.4	17.1	17.6	16.1	16.8	16.6	17.3	17.8
8H	4H	14.9	15.7	15.4	16.2	16.6	14.8	15.6	15.2	16.0	16.5
	6H	15.8	16.4	16.3	16.9	17.4	15.8	16.4	16.3	16.9	17.4
	8H	16.2	16.8	16.7	17.3	17.7	16.3	16.9	16.8	17.4	17.9
	12H	16.5	17.1	17.0	17.5	18.1	16.8	17.3	17.3	17.8	18.4
12H	4H	15.0	15.7	15.5	16.2	16.6	14.8	15.5	15.3	16.0	16.5
	6H	15.9	16.5	16.4	16.9	17.5	15.9	16.5	16.4	16.9	17.5
	8H	16.3	16.8	16.8	17.3	17.9	16.5	17.0	17.0	17.5	18.0

Maximum UGR = 18.4

POLAR GRAPH



Maximum Candela = 1364.342 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.)