



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : LPT-24-L43-840-SA12125-(L30)-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] 06-07-2021  
 [MANUFAC] WILLIAMS INDOOR  
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.64836  
 [LUMINAIRE] 2x4' LED TROFFER  
 [MORE] ACRYLIC LENS  
 [LUMCAT] LPT-24-L43-840-SA12125-(L30)-DIM-UNV  
 [LAMPCAT] HLM 80 CRI 4000K 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	3131
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	144
Total Luminaire Watts	21.7
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	1701	1677	1651
55	1346	1274	1222
65	1045	950	953
75	862	819	927
85	980	993	1193

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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>	1432.361	1432.361	1432.361	1432.361	1432.361
<b>5</b>	1411.160	1411.160	1409.723	1409.723	1409.723
<b>10</b>	1383.849	1383.849	1382.412	1382.412	1383.849
<b>15</b>	1335.337	1335.337	1335.337	1336.775	1336.775
<b>20</b>	1286.107	1286.107	1286.107	1287.544	1288.982
<b>25</b>	1205.613	1203.816	1205.613	1208.488	1209.925
<b>30</b>	1100.324	1100.324	1100.324	1103.199	1105.355
<b>35</b>	1002.581	1002.581	1002.581	1002.581	1005.456
<b>40</b>	880.043	877.887	875.731	872.138	874.294
<b>45</b>	743.851	739.179	733.429	725.164	721.930
<b>50</b>	607.298	605.861	587.893	573.520	569.207
<b>55</b>	477.574	470.746	452.060	438.045	433.374
<b>60</b>	366.176	356.473	340.303	329.882	329.882
<b>65</b>	273.105	262.683	248.310	246.872	249.028
<b>70</b>	199.079	192.611	179.674	190.814	195.485
<b>75</b>	137.990	137.271	131.162	143.380	148.411
<b>80</b>	97.743	96.305	97.743	106.726	112.476
<b>85</b>	52.824	50.668	53.543	62.527	64.323
<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	511.35	N.A.	16.30
0-30	1064.93	N.A.	34.00
0-40	1688.3	N.A.	53.90
0-60	2664.31	N.A.	85.10
0-80	3072.65	N.A.	98.10
0-90	3130.96	N.A.	100.00
10-90	2997.04	N.A.	95.70
20-40	1176.95	N.A.	37.60
20-50	1741.79	N.A.	55.60
40-70	1234.13	N.A.	39.40
60-80	408.34	N.A.	13.00
70-80	150.23	N.A.	4.80
80-90	58.30	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	3130.96	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	133.91
10-20	377.44
20-30	553.59
30-40	623.36
40-50	564.85
50-60	411.17
60-70	258.11
70-80	150.23
80-90	58.30
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**

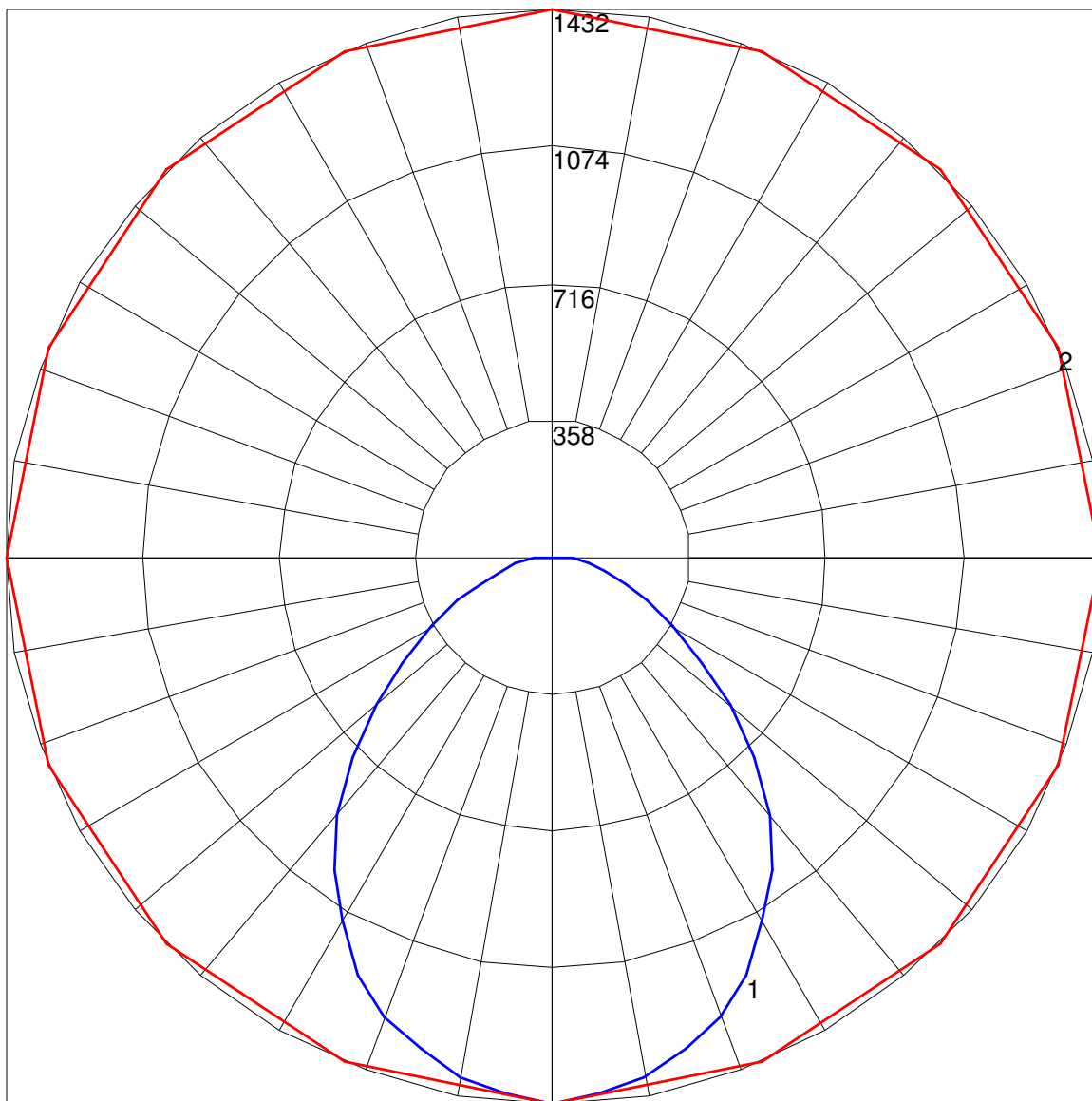
Reflectances

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	12.3	13.9	12.7	14.2	14.5	11.8	13.3	12.2	13.6	13.9
	3H	13.7	15.1	14.1	15.4	15.7	13.2	14.6	13.6	14.9	15.3
	4H	14.2	15.5	14.6	15.8	16.2	13.9	15.2	14.3	15.5	15.9
	6H	14.7	15.9	15.1	16.3	16.7	14.6	15.8	15.0	16.1	16.5
	8H	14.9	16.0	15.3	16.4	16.8	14.9	16.0	15.3	16.4	16.8
	12H	15.1	16.2	15.5	16.6	17.0	15.2	16.2	15.6	16.6	17.0
4H	2H	12.7	14.0	13.1	14.3	14.7	12.2	13.5	12.6	13.9	14.3
	3H	14.3	15.4	14.7	15.8	16.2	13.9	15.0	14.3	15.4	15.8
	4H	15.0	15.9	15.4	16.3	16.8	14.8	15.7	15.2	16.1	16.6
	6H	15.6	16.5	16.1	16.9	17.4	15.6	16.5	16.1	16.9	17.4
	8H	15.9	16.7	16.4	17.1	17.6	16.0	16.8	16.5	17.2	17.7
	12H	16.2	16.9	16.6	17.3	17.8	16.4	17.1	16.8	17.5	18.0
8H	4H	15.2	16.0	15.7	16.4	16.9	15.0	15.8	15.5	16.3	16.7
	6H	16.0	16.7	16.5	17.2	17.7	16.1	16.7	16.6	17.2	17.7
	8H	16.4	17.0	16.9	17.5	18.0	16.6	17.2	17.1	17.7	18.2
	12H	16.8	17.3	17.3	17.8	18.4	17.1	17.6	17.6	18.1	18.6
12H	4H	15.3	16.0	15.7	16.4	16.9	15.1	15.8	15.6	16.3	16.7
	6H	16.1	16.7	16.6	17.2	17.7	16.1	16.7	16.7	17.2	17.7
	8H	16.6	17.1	17.1	17.6	18.2	16.7	17.2	17.2	17.7	18.3

Maximum UGR = 18.6

POLAR GRAPH



Maximum Candela = 1432.361 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.)