



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : LPT-24-L43-840-SA12125-(L20)-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] 04-26-2024  
 [MANUFAC] WILLIAMS INDOOR  
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.64836  
 [LUMINAIRE] 2x4' LED TROFFER  
 [MORE] ACRYLIC LENS  
 [LUMCAT] LPT-24-L43-840-SA12125-(L20)-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	2011
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	150
Total Luminaire Watts	13.4
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	1093	1077	1060
55	865	819	785
65	671	610	612
75	554	526	596
85	629	638	766

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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>	919.987	919.987	919.987	919.987	919.987
<b>5</b>	906.369	906.369	905.446	905.446	905.446
<b>10</b>	888.828	888.828	887.905	887.905	888.828
<b>15</b>	857.670	857.670	857.670	858.593	858.593
<b>20</b>	826.049	826.049	826.049	826.973	827.896
<b>25</b>	774.349	773.195	774.349	776.196	777.119
<b>30</b>	706.723	706.723	706.723	708.570	709.955
<b>35</b>	643.945	643.945	643.945	643.945	645.791
<b>40</b>	565.240	563.855	562.471	560.163	561.547
<b>45</b>	477.765	474.765	471.072	465.763	463.686
<b>50</b>	390.060	389.136	377.596	368.364	365.594
<b>55</b>	306.739	302.354	290.352	281.351	278.350
<b>60</b>	235.190	228.958	218.572	211.879	211.879
<b>65</b>	175.411	168.718	159.486	158.563	159.948
<b>70</b>	127.866	123.711	115.402	122.557	125.558
<b>75</b>	88.629	88.167	84.244	92.091	95.322
<b>80</b>	62.779	61.856	62.779	68.549	72.242
<b>85</b>	33.928	32.543	34.390	40.160	41.314
<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	328.43	N.A.	16.30
0-30	683.99	N.A.	34.00
0-40	1084.37	N.A.	53.90
0-60	1711.25	N.A.	85.10
0-80	1973.53	N.A.	98.10
0-90	2010.97	N.A.	100.00
10-90	1924.96	N.A.	95.70
20-40	755.94	N.A.	37.60
20-50	1118.73	N.A.	55.60
40-70	792.66	N.A.	39.40
60-80	262.27	N.A.	13.00
70-80	96.49	N.A.	4.80
80-90	37.45	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	2010.97	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	86.01
10-20	242.42
20-30	355.56
30-40	400.38
40-50	362.79
50-60	264.09
60-70	165.78
70-80	96.49
80-90	37.45
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**

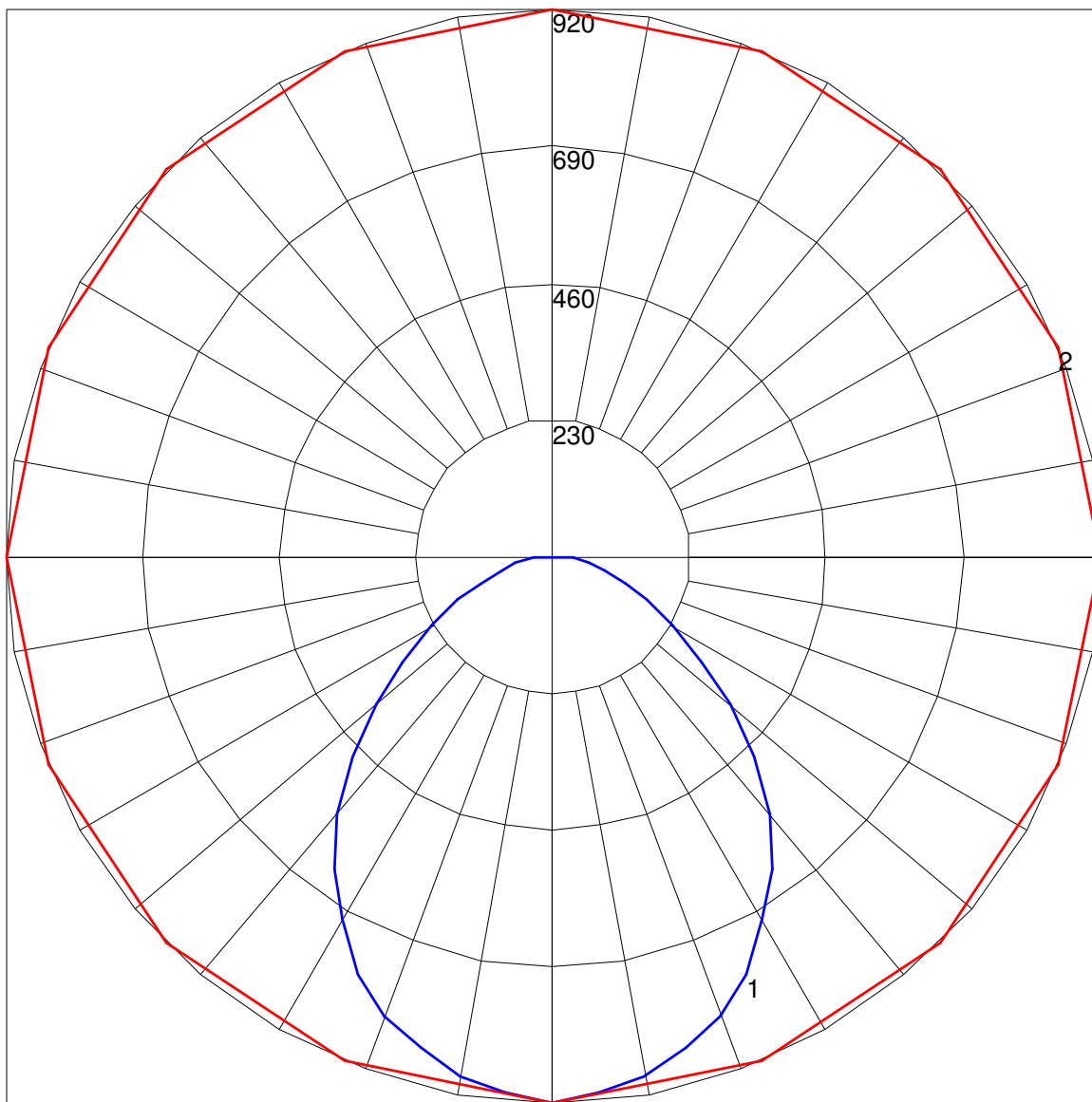
Reflectances

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	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	14.1	11.6	13.0	12.0	13.3	13.7
	4H	12.6	13.9	13.0	14.2	14.6	12.3	13.6	12.7	13.9	14.3
	6H	13.1	14.3	13.5	14.7	15.1	13.0	14.2	13.4	14.5	14.9
	8H	13.3	14.4	13.7	14.8	15.2	13.3	14.4	13.7	14.8	15.2
	12H	13.5	14.6	13.9	15.0	15.4	13.6	14.6	14.0	15.0	15.4
4H	2H	11.1	12.4	11.5	12.7	13.1	10.6	11.9	11.0	12.3	12.7
	3H	12.7	13.8	13.1	14.2	14.6	12.3	13.4	12.7	13.8	14.2
	4H	13.4	14.3	13.8	14.7	15.2	13.2	14.1	13.6	14.5	15.0
	6H	14.0	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	15.5	16.0	14.4	15.2	14.9	15.6	16.1
	12H	14.6	15.3	15.0	15.7	16.2	14.8	15.5	15.2	15.9	16.4
8H	4H	13.6	14.4	14.1	14.8	15.3	13.4	14.2	13.9	14.7	15.1
	6H	14.4	15.1	14.9	15.6	16.1	14.5	15.1	15.0	15.6	16.1
	8H	14.8	15.4	15.3	15.9	16.4	15.0	15.6	15.5	16.1	16.6
	12H	15.2	15.7	15.7	16.2	16.8	15.5	16.0	16.0	16.5	17.0
12H	4H	13.7	14.4	14.1	14.8	15.3	13.5	14.2	14.0	14.7	15.1
	6H	14.5	15.1	15.0	15.6	16.1	14.5	15.1	15.1	15.6	16.1
	8H	15.0	15.5	15.5	16.0	16.6	15.1	15.6	15.6	16.1	16.7

Maximum UGR = 17.0

POLAR GRAPH



Maximum Candela = 919.987 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.)