



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : LPT-24-L75-840-SAF12095-(L49)-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-L75-840-SAF12095-(L49)-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	5174
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	145
Total Luminaire Watts	35.8
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	2811	2771	2728
55	2225	2106	2019
65	1727	1570	1574
75	1425	1354	1532
85	1619	1642	1972

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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>	2366.988	2366.988	2366.988	2366.988	2366.988
<b>5</b>	2331.952	2331.952	2329.577	2329.577	2329.577
<b>10</b>	2286.821	2286.821	2284.446	2284.446	2286.821
<b>15</b>	2206.655	2206.655	2206.655	2209.030	2209.030
<b>20</b>	2125.301	2125.301	2125.301	2127.676	2130.051
<b>25</b>	1992.284	1989.315	1992.284	1997.034	1999.410
<b>30</b>	1818.293	1818.293	1818.293	1823.044	1826.607
<b>35</b>	1656.773	1656.773	1656.773	1656.773	1661.523
<b>40</b>	1454.278	1450.715	1447.152	1441.214	1444.777
<b>45</b>	1229.218	1221.499	1211.997	1198.339	1192.995
<b>50</b>	1003.565	1001.189	971.498	947.745	940.619
<b>55</b>	789.194	777.911	747.032	723.873	716.153
<b>60</b>	605.108	589.075	562.353	545.132	545.132
<b>65</b>	451.307	434.086	410.333	407.958	411.521
<b>70</b>	328.979	318.290	296.913	315.321	323.041
<b>75</b>	228.029	226.841	216.746	236.936	245.250
<b>80</b>	161.520	159.145	161.520	176.366	185.867
<b>85</b>	87.292	83.729	88.480	103.326	106.295
<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	845.01	N.A.	16.30
0-30	1759.81	N.A.	34.00
0-40	2789.92	N.A.	53.90
0-60	4402.8	N.A.	85.10
0-80	5077.58	N.A.	98.10
0-90	5173.93	N.A.	100.00
10-90	4952.64	N.A.	95.70
20-40	1944.91	N.A.	37.60
20-50	2878.33	N.A.	55.60
40-70	2039.4	N.A.	39.40
60-80	674.78	N.A.	13.00
70-80	248.26	N.A.	4.80
80-90	96.34	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	5173.93	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	221.29
10-20	623.72
20-30	914.81
30-40	1030.11
40-50	933.41
50-60	679.47
60-70	426.52
70-80	248.26
80-90	96.34
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

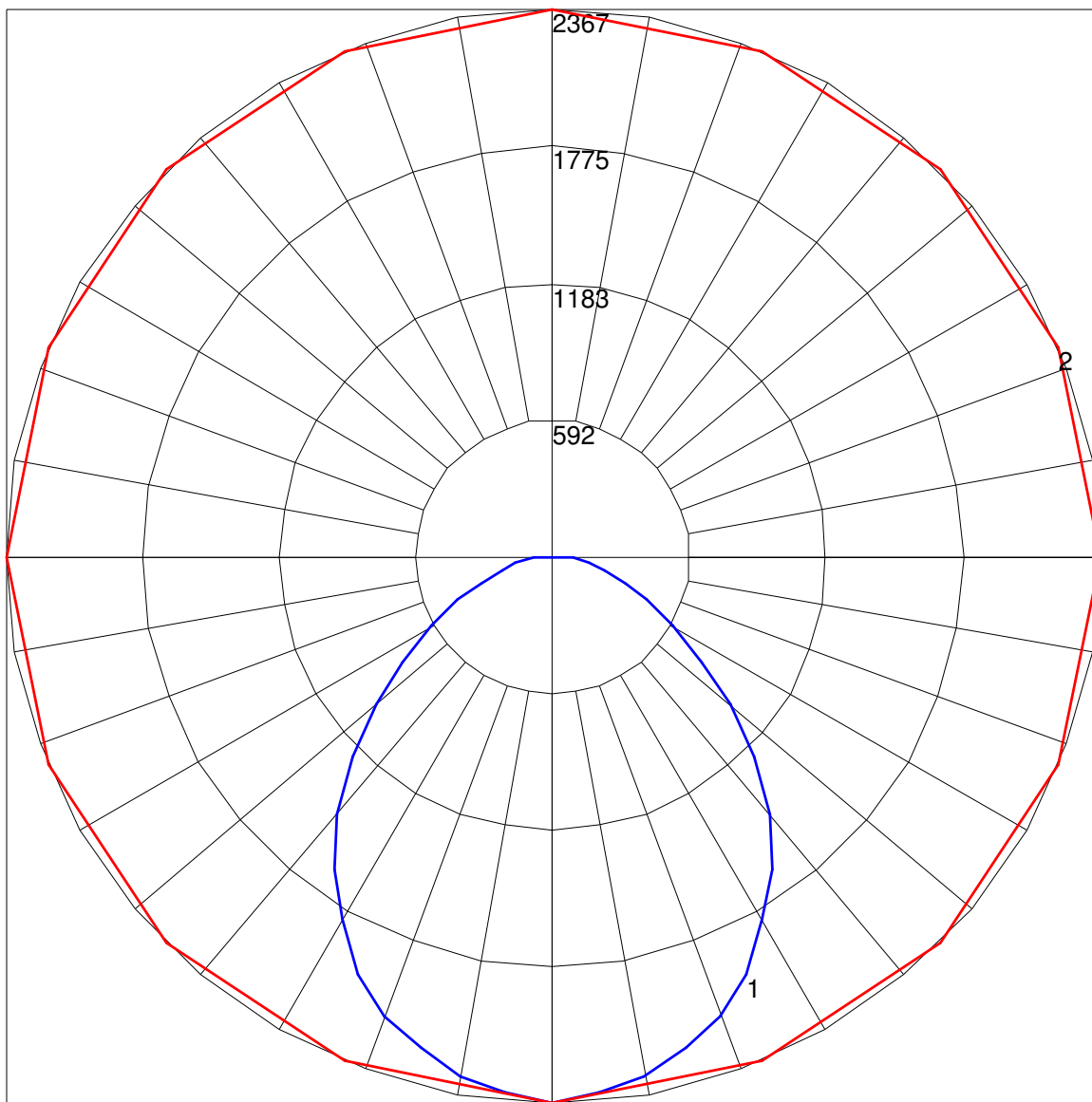
### Reflectances

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	14.0	15.6	14.4	15.9	16.2	13.5	15.0	13.9	15.3	15.6
	3H	15.4	16.8	15.8	17.1	17.4	14.9	16.3	15.3	16.6	17.0
	4H	15.9	17.2	16.3	17.5	17.9	15.6	16.9	16.0	17.2	17.6
	6H	16.4	17.6	16.8	18.0	18.4	16.3	17.5	16.7	17.8	18.2
	8H	16.6	17.7	17.0	18.1	18.5	16.6	17.7	17.0	18.1	18.5
	12H	16.8	17.9	17.2	18.3	18.7	16.9	17.9	17.3	18.3	18.7
4H	2H	14.4	15.7	14.8	16.0	16.4	13.9	15.2	14.3	15.6	16.0
	3H	16.0	17.1	16.4	17.5	17.9	15.6	16.7	16.0	17.1	17.5
	4H	16.7	17.6	17.1	18.0	18.5	16.5	17.4	16.9	17.8	18.3
	6H	17.3	18.2	17.8	18.6	19.1	17.3	18.2	17.8	18.6	19.1
	8H	17.6	18.4	18.1	18.8	19.3	17.7	18.5	18.2	18.9	19.4
	12H	17.9	18.6	18.3	19.0	19.5	18.1	18.8	18.5	19.2	19.7
8H	4H	16.9	17.7	17.4	18.1	18.6	16.7	17.5	17.2	18.0	18.4
	6H	17.7	18.4	18.2	18.9	19.4	17.8	18.4	18.3	18.9	19.4
	8H	18.1	18.7	18.6	19.2	19.7	18.3	18.9	18.8	19.4	19.9
	12H	18.5	19.0	19.0	19.5	20.1	18.8	19.3	19.3	19.8	20.3
12H	4H	17.0	17.7	17.4	18.1	18.6	16.8	17.5	17.3	18.0	18.4
	6H	17.8	18.4	18.3	18.9	19.4	17.8	18.4	18.4	18.9	19.4
	8H	18.3	18.8	18.8	19.3	19.9	18.4	18.9	18.9	19.4	20.0

Maximum UGR = 20.3

POLAR GRAPH



Maximum Candela = 2366.988 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.)