



IES INDOOR REPORT

PHOTOMETRIC FILENAME : LPT-24-L75-835-SAF12125-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

[ISSUEDATE] 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-L75-835-SAF12125-DIM-UNV

[LAMPCAT] HLM 80 CRI 3500K CCT

[_SEARCH_SOURCETYPE] LED

[_SEARCH_APPLICATION] Indoor, Architectural, Classroom, Commercial, Office, Direct

[_SEARCH_MOUNTING] Recessed

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7556
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	124
Total Luminaire Watts	61
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	4105	4047	3984
55	3249	3075	2948
65	2522	2293	2299
75	2080	1977	2238
85	2365	2397	2880

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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>
0	3456.699	3456.699	3456.699	3456.699	3456.699
5	3405.533	3405.533	3402.064	3402.064	3402.064
10	3339.625	3339.625	3336.157	3336.157	3339.625
15	3222.552	3222.552	3222.552	3226.021	3226.021
20	3103.744	3103.744	3103.744	3107.213	3110.682
25	2909.489	2905.153	2909.489	2916.427	2919.896
30	2655.397	2655.397	2655.397	2662.334	2667.538
35	2419.516	2419.516	2419.516	2419.516	2426.453
40	2123.797	2118.594	2113.391	2104.718	2109.922
45	1795.125	1783.851	1769.975	1750.030	1742.225
50	1465.585	1462.116	1418.755	1384.067	1373.660
55	1152.522	1136.045	1090.950	1057.129	1045.855
60	883.687	860.272	821.248	796.099	796.099
65	659.080	633.930	599.242	595.773	600.976
70	480.434	464.825	433.605	460.488	471.762
75	333.009	331.274	316.532	346.017	358.158
80	235.881	232.412	235.881	257.561	271.437
85	127.480	122.277	129.214	150.895	155.231
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1234.03	N.A.	16.30
0-30	2569.99	N.A.	34.00
0-40	4074.34	N.A.	53.90
0-60	6429.76	N.A.	85.10
0-80	7415.2	N.A.	98.10
0-90	7555.89	N.A.	100.00
10-90	7232.73	N.A.	95.70
20-40	2840.31	N.A.	37.60
20-50	4203.45	N.A.	55.60
40-70	2978.3	N.A.	39.40
60-80	985.44	N.A.	13.00
70-80	362.56	N.A.	4.80
80-90	140.70	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	7555.89	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	323.17
10-20	910.86
20-30	1335.96
30-40	1504.35
40-50	1363.13
50-60	992.28
60-70	622.89
70-80	362.56
80-90	140.70
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

X=2H	Y=2H	15.3	16.9	15.7	17.2	17.5	UGR Viewed Endwise			
	3H	16.7	18.1	17.1	18.4	18.7	14.8	16.3	15.2	16.6
	4H	17.2	18.5	17.6	18.9	19.2	16.2	17.6	16.6	17.9
	6H	17.7	18.9	18.1	19.3	19.7	16.9	18.2	17.3	18.5
	8H	17.9	19.0	18.3	19.4	19.8	17.6	18.8	18.0	19.1
	12H	18.1	19.2	18.5	19.6	20.0	17.9	19.0	18.3	19.4

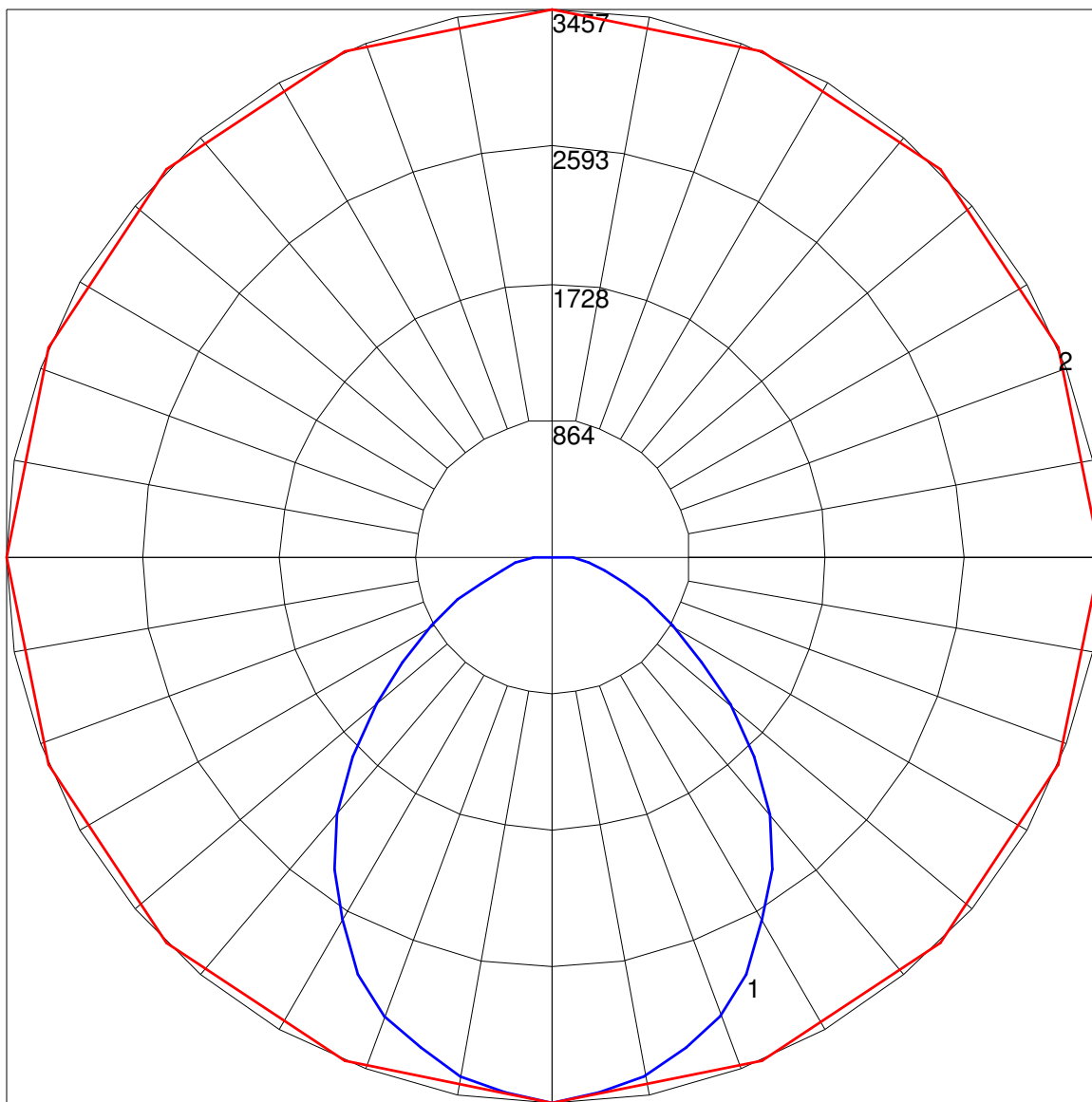
4H	2H	15.7	17.0	16.1	17.3	17.7	18.2	19.2	18.6	19.6
	3H	17.3	18.4	17.7	18.8	19.2	19.4	20.1	19.8	20.5
	4H	18.0	18.9	18.4	19.3	19.8	19.4	20.1	19.8	20.5
	6H	18.6	19.5	19.1	19.9	20.4	19.4	20.1	19.8	20.5
	8H	18.9	19.7	19.4	20.1	20.6	19.4	20.1	19.8	20.5
	12H	19.2	19.9	19.6	20.3	20.8	19.4	20.1	19.8	20.5

8H	4H	18.2	19.0	18.7	19.4	19.9	18.0	18.8	18.5	19.3
	6H	19.0	19.7	19.5	20.2	20.7	19.1	19.7	19.6	20.2
	8H	19.4	20.0	19.9	20.5	21.0	19.6	20.2	20.1	20.7
	12H	19.8	20.3	20.3	20.8	21.4	19.6	20.2	20.1	20.7

12H	4H	18.3	19.0	18.7	19.4	19.9	18.1	18.8	18.6	19.3
	6H	19.1	19.7	19.6	20.2	20.7	19.1	19.7	19.7	20.2
	8H	19.6	20.1	20.1	20.6	21.2	19.7	20.2	20.2	20.7

Maximum UGR = 21.6

POLAR GRAPH



Maximum Candela = 3456.699 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.)