



IES INDOOR REPORT

PHOTOMETRIC FILENAME : LPT-24-L75-835-SAF12095-(L60)-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] 04-14-2022

[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-SAF12095-(L60)-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	5904
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	146
Total Luminaire Watts	40.4
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	3207	3162	3113
55	2539	2403	2304
65	1970	1791	1797
75	1626	1545	1748
85	1848	1873	2250

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	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	2700.946	2700.946	2700.946	2700.946	2700.946
5	2660.967	2660.967	2658.257	2658.257	2658.257
10	2609.469	2609.469	2606.759	2606.759	2609.469
15	2517.992	2517.992	2517.992	2520.702	2520.702
20	2425.160	2425.160	2425.160	2427.870	2430.581
25	2273.375	2269.987	2273.375	2278.796	2281.507
30	2074.836	2074.836	2074.836	2080.257	2084.323
35	1890.527	1890.527	1890.527	1890.527	1895.948
40	1659.462	1655.397	1651.331	1644.555	1648.621
45	1402.649	1393.840	1382.998	1367.413	1361.315
50	1145.158	1142.447	1108.567	1081.463	1073.331
55	900.541	887.667	852.431	826.004	817.195
60	690.483	672.187	641.695	622.044	622.044
65	514.982	495.332	468.227	465.517	469.582
70	375.395	363.198	338.804	359.810	368.619
75	260.202	258.846	247.327	270.366	279.852
80	184.309	181.599	184.309	201.250	212.091
85	99.608	95.543	100.964	117.904	121.292
90	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	964.23	N.A.	16.30
0-30	2008.1	N.A.	34.00
0-40	3183.55	N.A.	53.90
0-60	5023.99	N.A.	85.10
0-80	5793.98	N.A.	98.10
0-90	5903.92	N.A.	100.00
10-90	5651.4	N.A.	95.70
20-40	2219.32	N.A.	37.60
20-50	3284.43	N.A.	55.60
40-70	2327.14	N.A.	39.40
60-80	769.99	N.A.	13.00
70-80	283.29	N.A.	4.80
80-90	109.94	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	5903.92	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	252.51
10-20	711.72
20-30	1043.88
30-40	1175.45
40-50	1065.11
50-60	775.33
60-70	486.70
70-80	283.29
80-90	109.94
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	14.5	16.1	14.9	16.4	16.7	14.0	15.5	14.4	15.8	16.1
	3H	15.9	17.3	16.3	17.6	17.9	15.4	16.8	15.8	17.1	17.5
	4H	16.4	17.7	16.8	18.0	18.4	16.1	17.4	16.5	17.7	18.1
	6H	16.9	18.1	17.3	18.5	18.9	16.8	18.0	17.2	18.3	18.7
	8H	17.1	18.2	17.5	18.6	19.0	17.1	18.2	17.5	18.6	19.0
	12H	17.3	18.4	17.7	18.8	19.2	17.4	18.4	17.8	18.8	19.2

UGR Viewed Endwise

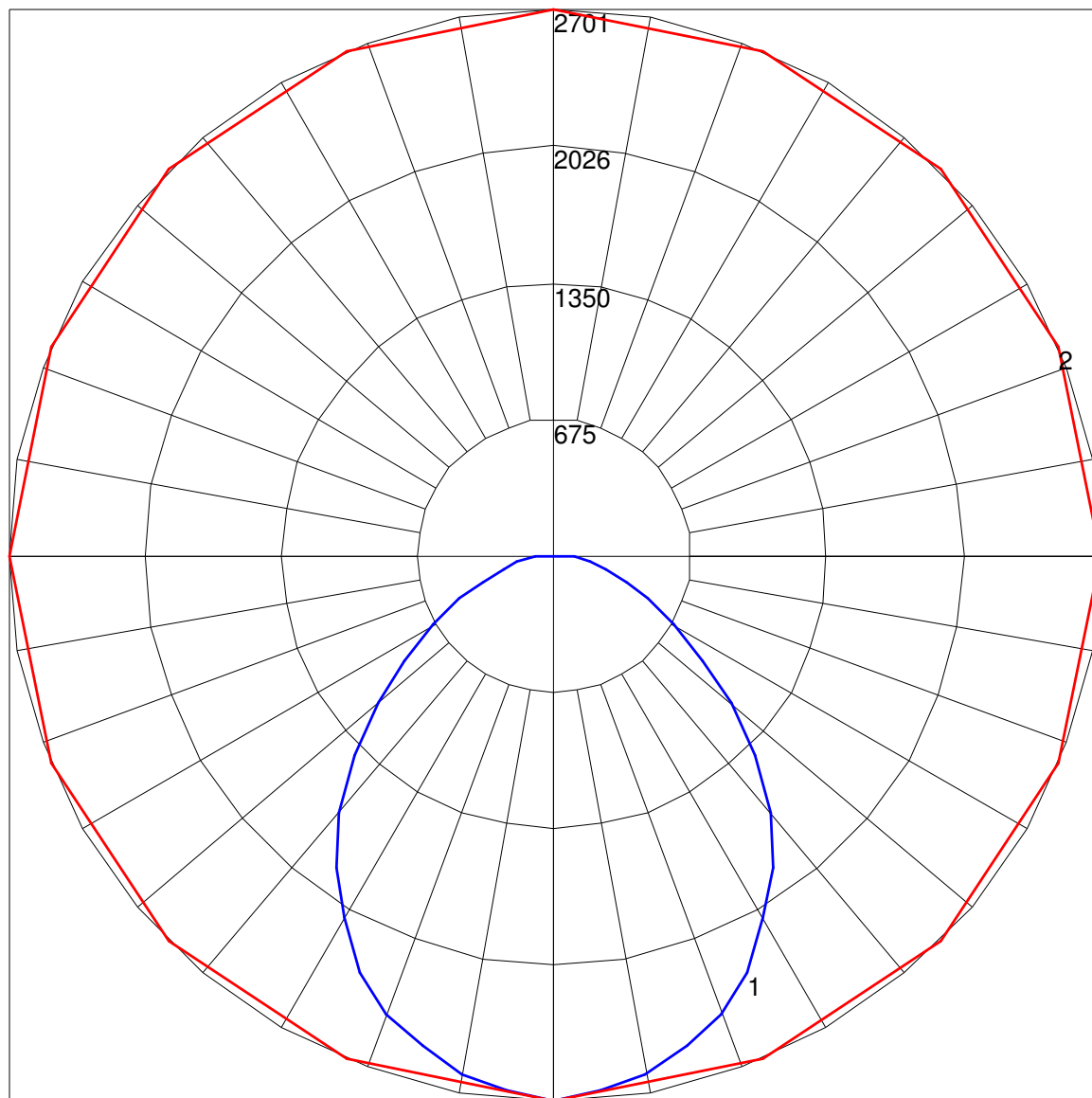
4H	2H	14.9	16.2	15.3	16.5	16.9	14.4	15.7	14.8	16.1	16.5
	3H	16.5	17.6	16.9	18.0	18.4	16.1	17.2	16.5	17.6	18.0
	4H	17.2	18.1	17.6	18.5	19.0	17.0	17.9	17.4	18.3	18.8
	6H	17.8	18.7	18.3	19.1	19.6	17.8	18.7	18.3	19.1	19.6
	8H	18.1	18.9	18.6	19.3	19.8	18.2	19.0	18.7	19.4	19.9
	12H	18.4	19.1	18.8	19.5	20.0	18.6	19.3	19.0	19.7	20.2

8H	4H	17.4	18.2	17.9	18.6	19.1	17.2	18.0	17.7	18.5	18.9
	6H	18.2	18.9	18.7	19.4	19.9	18.3	18.9	18.8	19.4	19.9
	8H	18.6	19.2	19.1	19.7	20.2	18.8	19.4	19.3	19.9	20.4
	12H	19.0	19.5	19.5	20.0	20.6	19.3	19.8	19.8	20.3	20.8

12H	4H	17.5	18.2	17.9	18.6	19.1	17.3	18.0	17.8	18.5	18.9
	6H	18.3	18.9	18.8	19.4	19.9	18.3	18.9	18.9	19.4	19.9
	8H	18.8	19.3	19.3	19.8	20.4	18.9	19.4	19.4	19.9	20.5

Maximum UGR = 20.8

POLAR GRAPH



Maximum Candela = 2700.946 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.)