



IES INDOOR REPORT

PHOTOMETRIC FILENAME : LPT-24-L75-835-SAF12095-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] 27-MAR-2020

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.

[LUMINAIRE] 4-72 LED 22" ARRAYS 2x4' RECESSED GRID LUMINAIRE

[MORE] WHITE INTERNAL REFLECTOR w/P12 ACRYLIC LENS

[LUMCAT] LPT-24-L75-835-SAF12095-DIM-UNV

[LAMPCAT] HLM 80 CRI 3500K CCT

[_SEARCH_SOURCETYPE] LED

[_SEARCH_APPLICATION] Indoor, Architectural, Classroom, Commercial, Educational, 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	209	209	209	209	204	204	204	204	195	195	195	187	187	187	179	179	179	175
1	193	185	178	172	188	181	175	169	174	168	164	167	163	159	160	157	154	150
2	177	164	153	143	172	160	150	142	154	146	138	149	142	135	143	138	132	129
3	163	146	132	122	158	143	131	121	138	127	119	133	124	117	129	121	115	111
4	150	131	116	105	146	128	115	105	124	112	103	120	110	102	116	108	100	97
5	139	118	103	92	135	116	102	92	112	100	91	109	98	90	106	96	89	85
6	129	107	92	82	126	105	91	81	102	90	80	99	88	80	97	87	79	76
7	120	98	83	73	117	96	82	73	93	81	72	91	80	72	89	79	71	68
8	112	89	75	66	109	88	75	65	86	74	65	84	73	65	82	72	64	61
9	105	82	69	59	103	81	68	59	80	67	59	78	67	59	76	66	58	55
10	99	76	63	54	96	76	63	54	74	62	54	72	61	54	71	61	54	51

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UGR TABLE - CORRECTED

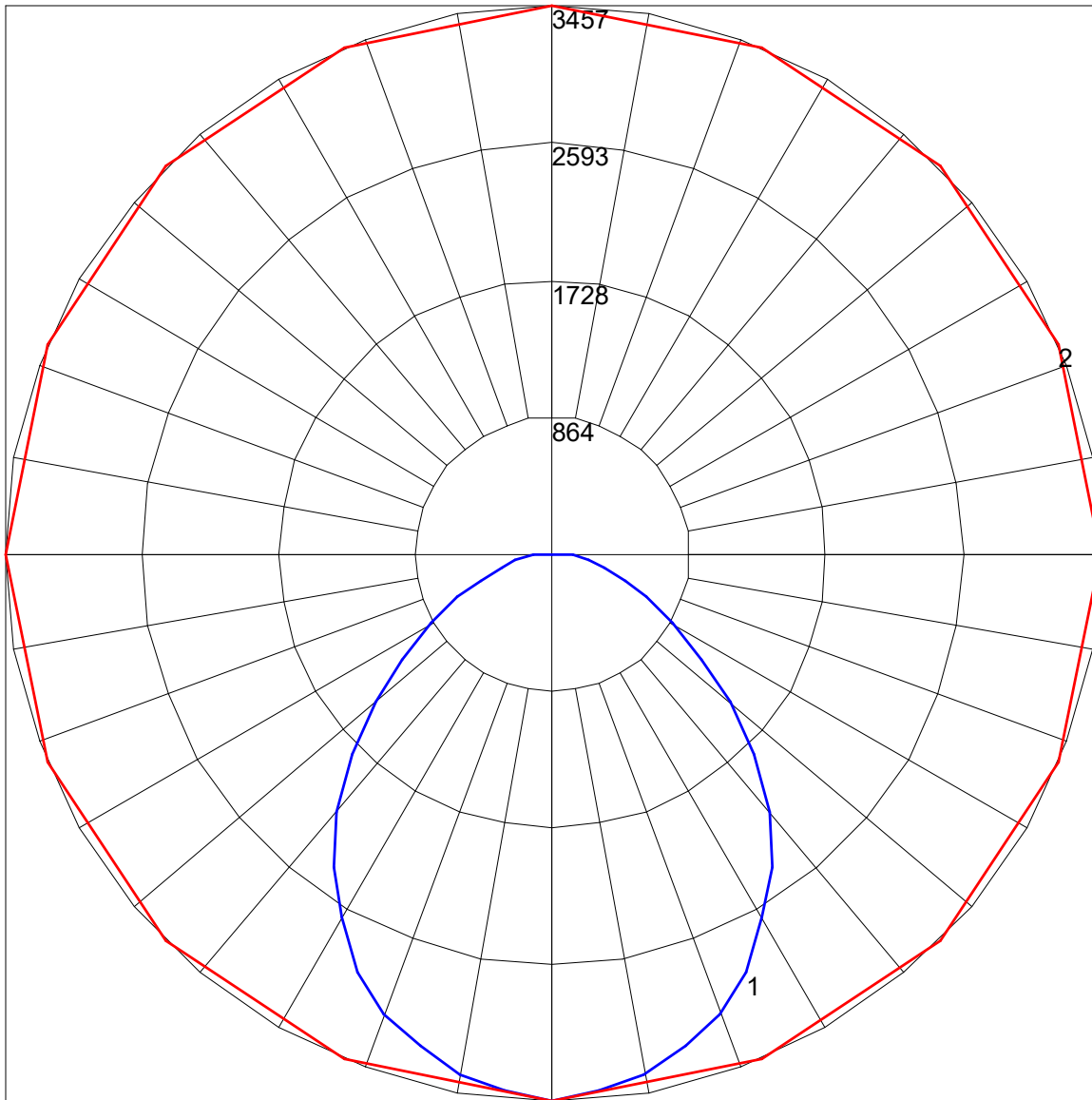
Reflectances

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	13.4	15.0	13.8	15.3	15.6	12.9	14.4	13.3	14.7	15.0
	3H	14.8	16.2	15.2	16.5	16.8	14.3	15.7	14.7	16.0	16.4
	4H	15.3	16.6	15.7	16.9	17.3	15.0	16.3	15.4	16.6	17.0
	6H	15.8	17.0	16.2	17.4	17.8	15.7	16.9	16.1	17.2	17.6
	8H	16.0	17.1	16.4	17.5	17.9	16.0	17.1	16.4	17.5	17.9
	12H	16.2	17.3	16.6	17.7	18.1	16.3	17.3	16.7	17.7	18.1
4H	2H	13.8	15.1	14.2	15.4	15.8	13.3	14.6	13.7	15.0	15.4
	3H	15.4	16.5	15.8	16.9	17.3	15.0	16.1	15.4	16.5	16.9
	4H	16.1	17.0	16.5	17.4	17.9	15.9	16.8	16.3	17.2	17.7
	6H	16.7	17.6	17.2	18.0	18.5	16.7	17.6	17.2	18.0	18.5
	8H	17.0	17.8	17.5	18.2	18.7	17.1	17.9	17.6	18.3	18.8
	12H	17.3	18.0	17.7	18.4	18.9	17.5	18.2	17.9	18.6	19.1
8H	4H	16.3	17.1	16.8	17.5	18.0	16.1	16.9	16.6	17.4	17.8
	6H	17.1	17.8	17.6	18.3	18.8	17.2	17.8	17.7	18.3	18.8
	8H	17.5	18.1	18.0	18.6	19.1	17.7	18.3	18.2	18.8	19.3
	12H	17.9	18.4	18.4	18.9	19.5	18.2	18.7	18.7	19.2	19.7
12H	4H	16.4	17.1	16.8	17.5	18.0	16.2	16.9	16.7	17.4	17.8
	6H	17.2	17.8	17.7	18.3	18.8	17.2	17.8	17.8	18.3	18.8
	8H	17.7	18.2	18.2	18.7	19.3	17.8	18.3	18.3	18.8	19.4

Maximum UGR = 19.7

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.)