



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 17-4-L55-835-AF-(L30)-EM10WLP-DIM-UNV_EMER MODE ONLY.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 20112.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 12-13-2024

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO 64836

[LUMINAIRE] 4' NARROW LOW PROFILE WRAP LED LUMINAIRE

[MORE] WITH FROSTED PRISMATIC ACRYLIC DIFFUSER

[LUMCAT] 17-4-L55-835-AF-(L30)-EM10WLP-DIM-UNV

[LAMPCAT] HLM 80 CRI, 3500K CCT

[_SEARCH_SOURCETYPE] LED

[_SEARCH_APPLICATION] Indoor, Classroom, Commercial, Industrial, Manufacturing, Office, Direct

[_SEARCH_MOUNTING] Pendant, Surface, Suspended

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1490
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	149
Total Luminaire Watts	10
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.34
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.88 ft
Luminous Height	0.15 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1339	1247	1270
55	1108	1060	1108
65	867	860	928
75	651	661	771
85	315	433	612

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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	533.822	533.822	533.822	533.822	533.822
5	539.897	533.030	528.803	527.483	526.690
10	531.445	524.577	520.615	519.823	517.446
15	519.030	512.955	508.993	508.201	506.616
20	500.277	494.201	490.504	492.881	489.975
25	475.976	471.750	467.788	471.750	469.108
30	446.128	443.487	440.317	444.544	444.279
35	409.677	410.734	406.508	414.168	415.488
40	366.095	367.944	367.151	377.453	380.622
45	319.342	321.984	328.323	335.719	341.002
50	268.100	271.269	284.740	290.551	297.419
55	217.649	221.611	238.516	248.289	256.213
60	170.633	176.444	194.934	204.971	215.008
65	128.635	136.823	154.785	165.350	173.274
70	92.976	101.429	118.070	130.484	136.295
75	62.336	69.468	85.581	100.636	105.391
80	35.923	43.319	57.846	72.638	77.128
85	12.679	19.810	32.489	49.394	50.450
90	0.000	6.075	17.961	31.168	34.338
95	0.000	6.075	17.433	28.527	32.489
100	0.000	6.339	17.169	27.206	30.376
105	0.000	6.075	16.905	25.357	28.263
110	0.000	6.868	16.377	24.301	26.678
115	0.000	6.339	15.584	22.980	25.357
120	0.000	7.132	14.792	21.131	23.508
125	0.000	6.339	13.471	19.282	21.395
130	0.000	6.075	11.886	16.905	19.018
135	0.000	5.811	11.094	15.056	16.641
140	0.000	5.547	9.773	13.471	15.056
145	0.000	0.000	8.452	12.150	13.207
150	0.000	0.000	7.660	9.773	11.358
155	0.000	0.000	6.868	8.981	8.452
160	0.000	0.000	6.075	7.396	7.396
165	0.000	0.000	0.000	5.811	6.868
170	0.000	0.000	0.000	0.000	5.811
175	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : 17-4-L55-835-AF-(L30)-EM10WLP-DIM-UNV_EMER MODE ONLY.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	194.42	N.A.	13.00
0-30	411.25	N.A.	27.60
0-40	667.61	N.A.	44.80
0-60	1132.71	N.A.	76.00
0-80	1374.96	N.A.	92.30
0-90	1413.74	N.A.	94.90
10-90	1363.34	N.A.	91.50
20-40	473.20	N.A.	31.80
20-50	726.44	N.A.	48.80
40-70	616.68	N.A.	41.40
60-80	242.26	N.A.	16.30
70-80	90.67	N.A.	6.10
80-90	38.77	N.A.	2.60
90-110	35.39	N.A.	2.40
90-120	49.72	N.A.	3.30
90-130	60.88	N.A.	4.10
90-150	73.21	N.A.	4.90
90-180	76.30	N.A.	5.10
110-180	40.91	N.A.	2.70
0-180	1490.04	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	50.40
10-20	144.02
20-30	216.83
30-40	256.36
40-50	253.25
50-60	211.85
60-70	151.59
70-80	90.67
80-90	38.77
90-100	18.74
100-110	16.65
110-120	14.33
120-130	11.16
130-140	7.82
140-150	4.50
150-160	2.34
160-170	0.72
170-180	0.03

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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	118	118	118	118	114	114	114	114	108	108	108	103	103	103	97	97	97	95
1	108	103	99	95	104	100	96	93	95	92	89	90	88	85	86	84	82	79
2	98	90	83	78	95	88	81	76	83	78	74	79	75	71	75	72	69	67
3	90	79	71	65	87	77	70	64	74	67	62	70	65	60	67	63	59	56
4	82	70	62	55	79	69	61	55	66	59	53	63	57	52	60	55	51	48
5	76	63	54	48	73	62	53	47	59	52	46	56	50	45	54	49	44	42
6	70	57	48	42	68	56	47	41	53	46	41	51	45	40	49	44	39	37
7	65	52	43	37	63	51	42	37	49	41	36	47	40	35	45	39	35	33
8	60	47	39	33	59	46	38	33	45	37	32	43	37	32	41	36	31	29
9	57	43	35	30	55	43	35	30	41	34	29	40	33	29	38	33	28	27
10	53	40	32	27	51	39	32	27	38	31	27	37	31	26	36	30	26	24

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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	10.9	12.4	11.3	12.8	13.2	12.3	13.8	12.7	14.2	14.6
	3H	12.2	13.5	12.6	14.0	14.4	14.1	15.4	14.5	15.8	16.3
	4H	12.6	13.9	13.1	14.3	14.8	14.8	16.1	15.3	16.6	17.1
	6H	12.8	14.0	13.3	14.5	15.0	15.6	16.7	16.0	17.2	17.7
	8H	12.9	14.0	13.4	14.5	15.0	15.9	17.0	16.4	17.5	18.0
	12H	12.9	14.0	13.4	14.5	15.0	16.2	17.2	16.7	17.7	18.3

UGR Viewed Endwise

4H	2H	11.6	12.8	12.0	13.3	13.8	12.7	13.9	13.2	14.4	14.9
	3H	13.1	14.1	13.6	14.6	15.2	14.7	15.8	15.2	16.3	16.8
	4H	13.6	14.5	14.1	15.1	15.6	15.6	16.6	16.1	17.1	17.6
	6H	13.9	14.8	14.5	15.3	15.9	16.5	17.3	17.0	17.9	18.4
	8H	14.0	14.8	14.6	15.3	15.9	16.9	17.7	17.4	18.2	18.8
	12H	14.1	14.8	14.6	15.3	15.9	17.3	18.0	17.8	18.6	19.1

8H	4H	14.0	14.8	14.5	15.3	15.9	15.8	16.6	16.3	17.1	17.7
	6H	14.4	15.1	15.0	15.7	16.3	16.8	17.5	17.4	18.0	18.6
	8H	14.6	15.2	15.2	15.8	16.4	17.3	17.9	17.9	18.5	19.1
	12H	14.7	15.2	15.2	15.8	16.4	17.8	18.4	18.4	18.9	19.6

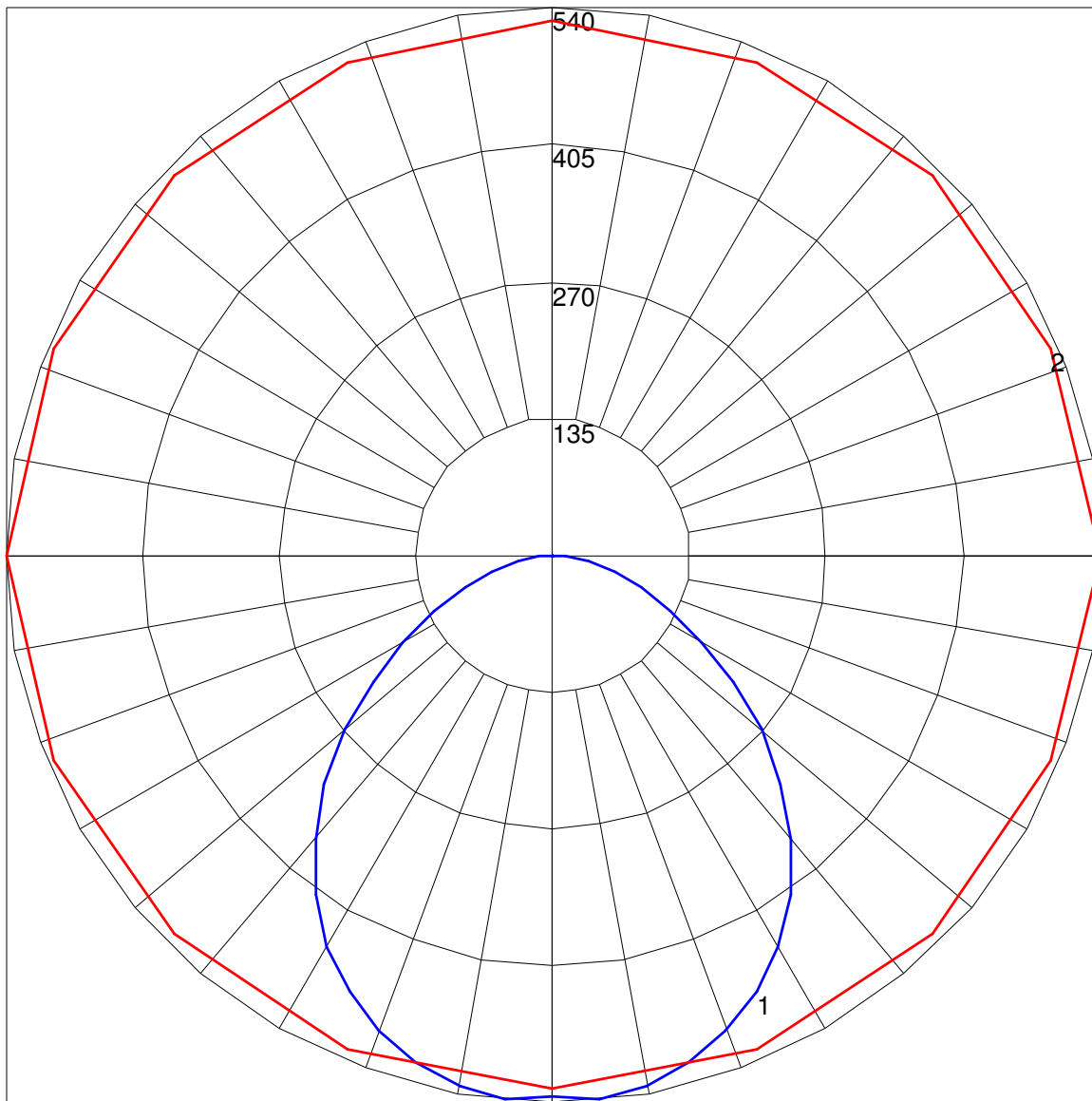
12H	4H	14.1	14.8	14.6	15.3	15.9	15.8	16.5	16.4	17.1	17.7
	6H	14.6	15.2	15.2	15.7	16.4	16.8	17.4	17.4	18.0	18.6
	8H	14.8	15.3	15.3	15.9	16.5	17.4	17.9	18.0	18.5	19.2

Maximum UGR = 19.6

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POLAR GRAPH



Maximum Candela = 539.897 Located At Horizontal Angle = 0, Vertical Angle = 5

1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)

2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)