

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 17-4-L55-830-AF-(L38)-DIM-UNV_.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] 06/20/2025

[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-L55-830-AF-(L38)-DIM-UNV

[LAMPCAT] HLM 80 CRI, 3000K 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	3849
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	138
Total Luminaire Watts	27.8
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	3458	3222	3280
55	2863	2738	2863
65	2241	2222	2397
75	1682	1708	1992
85	815	1119	1580

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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	1379.024	1379.024	1379.024	1379.024	1379.024
5	1394.718	1376.976	1366.059	1362.647	1360.600
10	1372.882	1355.141	1344.906	1342.859	1336.718
15	1340.812	1325.118	1314.883	1312.836	1308.742
20	1292.365	1276.671	1267.119	1273.260	1265.754
25	1229.590	1218.672	1208.437	1218.672	1211.848
30	1152.484	1145.661	1137.473	1148.390	1147.708
35	1058.320	1061.050	1050.132	1069.920	1073.332
40	945.733	950.510	948.462	975.074	983.262
45	824.958	831.781	848.157	867.263	880.910
50	692.582	700.770	735.570	750.582	768.323
55	562.254	572.489	616.159	641.406	661.877
60	440.796	455.808	503.572	529.501	555.431
65	332.303	353.456	399.855	427.149	447.620
70	240.186	262.021	305.009	337.079	352.091
75	161.034	179.457	221.080	259.974	272.257
80	92.799	111.905	149.434	187.645	199.245
85	32.753	51.176	83.929	127.599	130.328
90	0.000	15.694	46.400	80.517	88.705
95	0.000	15.694	45.035	73.693	83.929
100	0.000	16.376	44.353	70.282	78.470
105	0.000	15.694	43.670	65.505	73.011
110	0.000	17.741	42.306	62.776	68.917
115	0.000	16.376	40.258	59.364	65.505
120	0.000	18.423	38.211	54.588	60.729
125	0.000	16.376	34.800	49.811	55.270
130	0.000	15.694	30.706	43.670	49.129
135	0.000	15.012	28.659	38.894	42.988
140	0.000	14.329	25.247	34.800	38.894
145	0.000	0.000	21.835	31.388	34.117
150	0.000	0.000	19.788	25.247	29.341
155	0.000	0.000	17.741	23.200	21.835
160	0.000	0.000	15.694	19.106	19.106
165	0.000	0.000	0.000	15.012	17.741
170	0.000	0.000	0.000	0.000	15.012
175	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	502.23	N.A.	13.00
0-30	1062.37	N.A.	27.60
0-40	1724.64	N.A.	44.80
0-60	2926.13	N.A.	76.00
0-80	3551.95	N.A.	92.30
0-90	3652.12	N.A.	94.90
10-90	3521.93	N.A.	91.50
20-40	1222.41	N.A.	31.80
20-50	1876.62	N.A.	48.80
40-70	1593.08	N.A.	41.40
60-80	625.82	N.A.	16.30
70-80	234.23	N.A.	6.10
80-90	100.17	N.A.	2.60
90-110	91.43	N.A.	2.40
90-120	128.44	N.A.	3.30
90-130	157.28	N.A.	4.10
90-150	189.12	N.A.	4.90
90-180	197.11	N.A.	5.10
110-180	105.68	N.A.	2.70
0-180	3849.22	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	130.19
10-20	372.05
20-30	560.14
30-40	662.27
40-50	654.21
50-60	547.28
60-70	391.59
70-80	234.23
80-90	100.17
90-100	48.42
100-110	43.01
110-120	37.02
120-130	28.84
130-140	20.21
140-150	11.63
150-160	6.05
160-170	1.87
170-180	0.07

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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	80	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

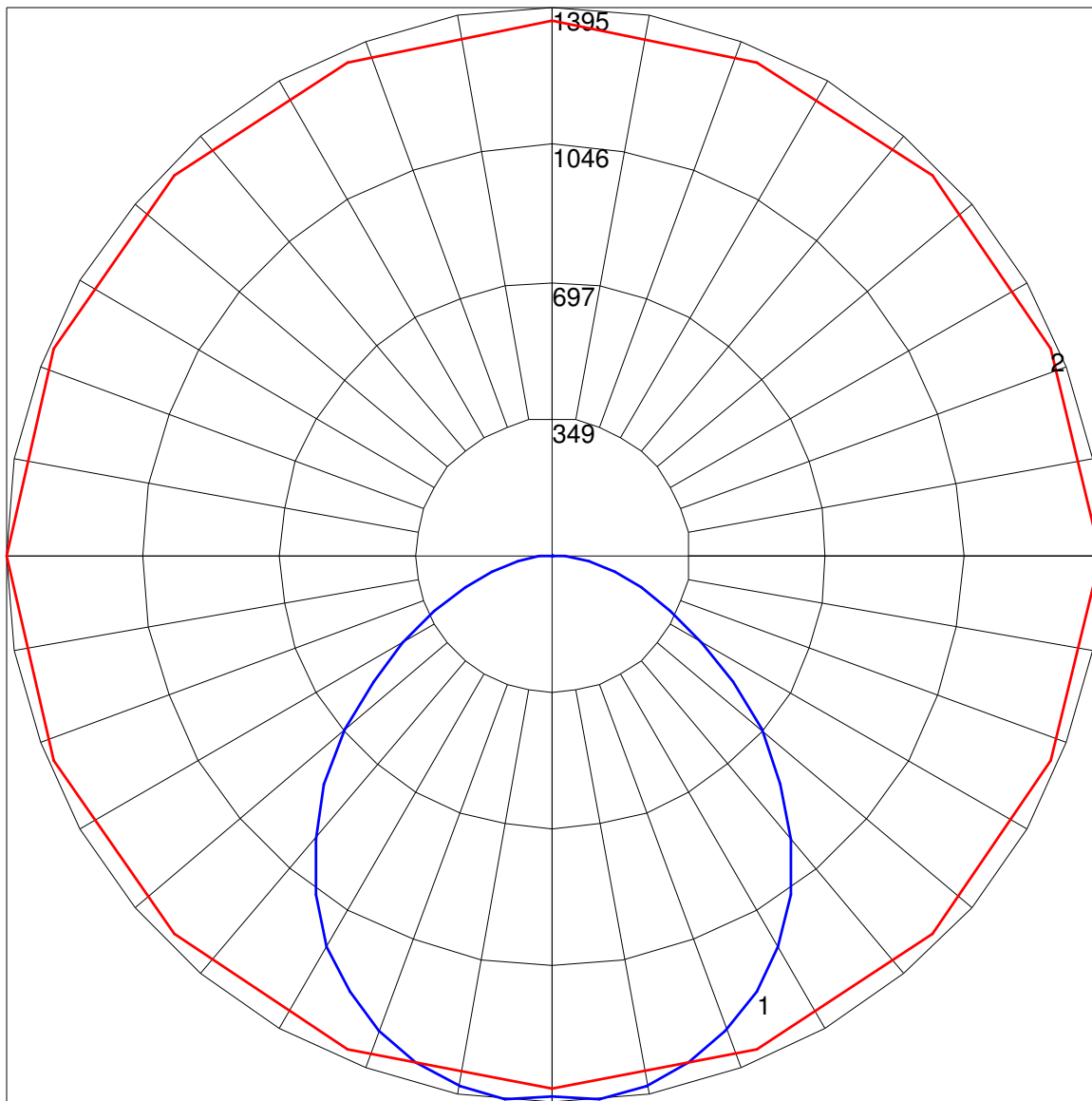
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	14.2	15.7	14.6	16.1	16.5	15.6	17.1	16.0	17.5	17.9
	3H	15.5	16.8	15.9	17.3	17.7	17.4	18.7	17.8	19.1	19.6
	4H	15.9	17.2	16.4	17.6	18.1	18.1	19.4	18.6	19.9	20.4
	6H	16.1	17.3	16.6	17.8	18.3	18.9	20.0	19.3	20.5	21.0
	8H	16.2	17.3	16.7	17.8	18.3	19.2	20.3	19.7	20.8	21.3
	12H	16.2	17.3	16.7	17.8	18.3	19.5	20.5	20.0	21.0	21.6
4H	2H	14.9	16.1	15.3	16.6	17.1	16.0	17.2	16.5	17.7	18.2
	3H	16.4	17.4	16.9	17.9	18.5	18.0	19.1	18.5	19.6	20.1
	4H	16.9	17.8	17.4	18.4	18.9	18.9	19.9	19.4	20.4	20.9
	6H	17.2	18.1	17.8	18.6	19.2	19.8	20.6	20.3	21.2	21.7
	8H	17.3	18.1	17.9	18.6	19.2	20.2	21.0	20.7	21.5	22.1
	12H	17.4	18.1	17.9	18.6	19.2	20.6	21.3	21.1	21.9	22.4
8H	4H	17.3	18.1	17.8	18.6	19.2	19.1	19.9	19.6	20.4	21.0
	6H	17.7	18.4	18.3	19.0	19.6	20.1	20.8	20.7	21.3	21.9
	8H	17.9	18.5	18.5	19.1	19.7	20.6	21.2	21.2	21.8	22.4
	12H	18.0	18.5	18.5	19.1	19.7	21.1	21.7	21.7	22.2	22.9
12H	4H	17.4	18.1	17.9	18.6	19.2	19.1	19.8	19.7	20.4	21.0
	6H	17.9	18.5	18.5	19.0	19.7	20.1	20.7	20.7	21.3	21.9
	8H	18.1	18.6	18.6	19.2	19.8	20.7	21.2	21.3	21.8	22.5

Maximum UGR = 22.9

POLAR GRAPH



Maximum Candela = 1394.718 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.)