

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 17-4-L55-835-AF-(L28)-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] 03-25-2026

[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-(L28)-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	2750
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	155
Total Luminaire Watts	17.7
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	2471	2302	2344
55	2045	1956	2046
65	1601	1587	1712
75	1202	1220	1423
85	582	800	1129

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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	985.242	985.242	985.242	985.242	985.242
5	996.454	983.779	975.979	973.542	972.079
10	980.854	968.179	960.866	959.404	955.016
15	957.941	946.729	939.416	937.954	935.029
20	923.329	912.116	905.291	909.679	904.316
25	878.479	870.679	863.366	870.679	865.804
30	823.391	818.516	812.666	820.466	819.978
35	756.116	758.066	750.266	764.403	766.841
40	675.678	679.090	677.628	696.640	702.490
45	589.390	594.265	605.965	619.615	629.365
50	494.815	500.665	525.527	536.252	548.927
55	401.702	409.014	440.214	458.252	472.877
60	314.926	325.651	359.776	378.302	396.827
65	237.413	252.526	285.676	305.176	319.801
70	171.601	187.201	217.913	240.826	251.551
75	115.050	128.213	157.951	185.738	194.513
80	66.300	79.950	106.763	134.063	142.351
85	23.400	36.563	59.963	91.163	93.113
90	0.000	11.213	33.150	57.525	63.375
95	0.000	11.213	32.175	52.650	59.963
100	0.000	11.700	31.688	50.213	56.063
105	0.000	11.213	31.200	46.800	52.163
110	0.000	12.675	30.225	44.850	49.238
115	0.000	11.700	28.763	42.413	46.800
120	0.000	13.163	27.300	39.000	43.388
125	0.000	11.700	24.863	35.588	39.488
130	0.000	11.213	21.938	31.200	35.100
135	0.000	10.725	20.475	27.788	30.713
140	0.000	10.238	18.038	24.863	27.788
145	0.000	0.000	15.600	22.425	24.375
150	0.000	0.000	14.138	18.038	20.963
155	0.000	0.000	12.675	16.575	15.600
160	0.000	0.000	11.213	13.650	13.650
165	0.000	0.000	0.000	10.725	12.675
170	0.000	0.000	0.000	0.000	10.725
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	358.82	N.A.	13.00
0-30	759.01	N.A.	27.60
0-40	1232.17	N.A.	44.80
0-60	2090.57	N.A.	76.00
0-80	2537.69	N.A.	92.30
0-90	2609.25	N.A.	94.90
10-90	2516.24	N.A.	91.50
20-40	873.35	N.A.	31.80
20-50	1340.75	N.A.	48.80
40-70	1138.17	N.A.	41.40
60-80	447.12	N.A.	16.30
70-80	167.34	N.A.	6.10
80-90	71.56	N.A.	2.60
90-110	65.32	N.A.	2.40
90-120	91.77	N.A.	3.30
90-130	112.37	N.A.	4.10
90-150	135.12	N.A.	4.90
90-180	140.82	N.A.	5.10
110-180	75.51	N.A.	2.70
0-180	2750.07	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	93.01
10-20	265.81
20-30	400.19
30-40	473.16
40-50	467.40
50-60	391.00
60-70	279.77
70-80	167.34
80-90	71.56
90-100	34.59
100-110	30.73
110-120	26.45
120-130	20.60
130-140	14.44
140-150	8.31
150-160	4.32
160-170	1.34
170-180	0.05

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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

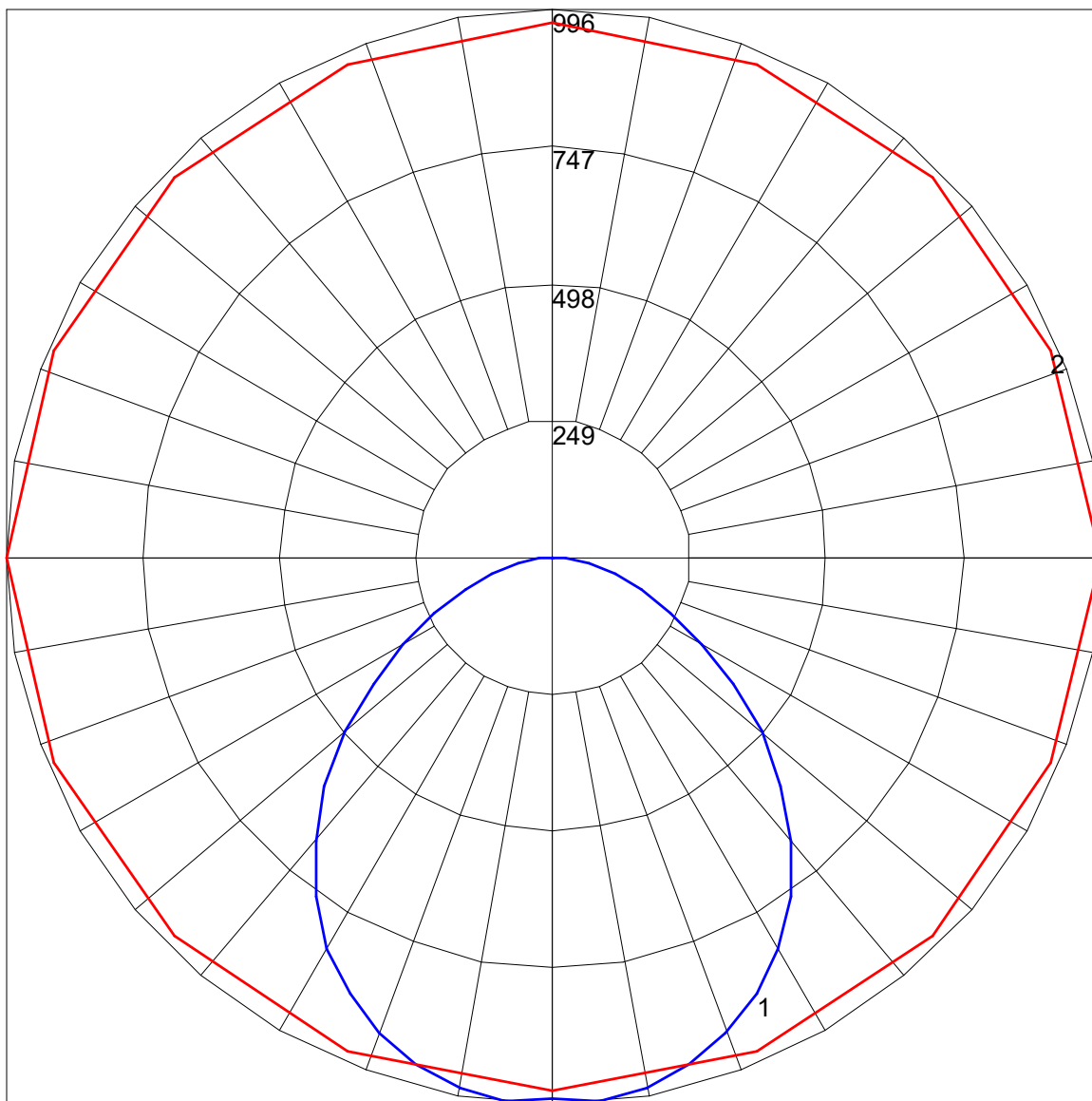
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	13.0	14.5	13.4	14.9	15.3	14.4	15.9	14.8	16.3	16.7
	3H	14.3	15.6	14.7	16.1	16.5	16.2	17.5	16.6	17.9	18.4
	4H	14.7	16.0	15.2	16.4	16.9	16.9	18.2	17.4	18.7	19.2
	6H	14.9	16.1	15.4	16.6	17.1	17.7	18.8	18.1	19.3	19.8
	8H	15.0	16.1	15.5	16.6	17.1	18.0	19.1	18.5	19.6	20.1
	12H	15.0	16.1	15.5	16.6	17.1	18.3	19.3	18.8	19.8	20.4
4H	2H	13.7	14.9	14.1	15.4	15.9	14.8	16.0	15.3	16.5	17.0
	3H	15.2	16.2	15.7	16.7	17.3	16.8	17.9	17.3	18.4	18.9
	4H	15.7	16.6	16.2	17.2	17.7	17.7	18.7	18.2	19.2	19.7
	6H	16.0	16.9	16.6	17.4	18.0	18.6	19.4	19.1	20.0	20.5
	8H	16.1	16.9	16.7	17.4	18.0	19.0	19.8	19.5	20.3	20.9
	12H	16.2	16.9	16.7	17.4	18.0	19.4	20.1	19.9	20.7	21.2
8H	4H	16.1	16.9	16.6	17.4	18.0	17.9	18.7	18.4	19.2	19.8
	6H	16.5	17.2	17.1	17.8	18.4	18.9	19.6	19.5	20.1	20.7
	8H	16.7	17.3	17.3	17.9	18.5	19.4	20.0	20.0	20.6	21.2
	12H	16.8	17.3	17.3	17.9	18.5	19.9	20.5	20.5	21.0	21.7
12H	4H	16.2	16.9	16.7	17.4	18.0	17.9	18.6	18.5	19.2	19.8
	6H	16.7	17.3	17.3	17.8	18.5	18.9	19.5	19.5	20.1	20.7
	8H	16.9	17.4	17.4	18.0	18.6	19.5	20.0	20.1	20.6	21.3

Maximum UGR = 21.7

POLAR GRAPH



Maximum Candela = 996.454 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.)