

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 17-4-L55-835-AF-(L40)-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

[ISSUE DATE] 04-09-2026

[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-(L40)-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	4136
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	143
Total Luminaire Watts	28.9
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	3716	3462	3525
55	3076	2942	3077
65	2408	2387	2575
75	1808	1835	2140
85	875	1203	1698

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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	1481.804	1481.804	1481.804	1481.804	1481.804
5	1498.668	1479.604	1467.873	1464.207	1462.008
10	1475.205	1456.142	1445.144	1442.944	1436.345
15	1440.745	1423.881	1412.883	1410.683	1406.284
20	1388.687	1371.824	1361.559	1368.158	1360.092
25	1321.233	1309.501	1298.503	1309.501	1302.169
30	1238.381	1231.049	1222.250	1233.981	1233.248
35	1137.198	1140.131	1128.400	1149.663	1153.329
40	1016.220	1021.352	1019.153	1047.748	1056.546
45	886.443	893.775	911.372	931.902	946.566
50	744.201	753.000	790.393	806.524	825.587
55	604.160	615.158	662.083	689.211	711.207
60	473.649	489.780	541.104	568.966	596.828
65	357.070	379.799	429.657	458.985	480.981
70	258.088	281.550	327.742	362.202	378.333
75	173.036	192.832	237.558	279.350	292.548
80	99.716	120.245	160.572	201.631	214.095
85	35.194	54.990	90.184	137.109	140.042
90	0.000	16.864	49.858	86.518	95.316
95	0.000	16.864	48.391	79.186	90.184
100	0.000	17.597	47.658	75.520	84.318
105	0.000	16.864	46.925	70.388	78.453
110	0.000	19.063	45.459	67.455	74.054
115	0.000	17.597	43.259	63.789	70.388
120	0.000	19.796	41.059	58.656	65.255
125	0.000	17.597	37.393	53.524	59.389
130	0.000	16.864	32.994	46.925	52.791
135	0.000	16.130	30.795	41.793	46.192
140	0.000	15.397	27.129	37.393	41.793
145	0.000	0.000	23.463	33.727	36.660
150	0.000	0.000	21.263	27.129	31.528
155	0.000	0.000	19.063	24.929	23.463
160	0.000	0.000	16.864	20.530	20.530
165	0.000	0.000	0.000	16.130	19.063
170	0.000	0.000	0.000	0.000	16.130
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	539.67	N.A.	13.00
0-30	1141.55	N.A.	27.60
0-40	1853.18	N.A.	44.80
0-60	3144.22	N.A.	76.00
0-80	3816.68	N.A.	92.30
0-90	3924.31	N.A.	94.90
10-90	3784.42	N.A.	91.50
20-40	1313.51	N.A.	31.80
20-50	2016.49	N.A.	48.80
40-70	1711.82	N.A.	41.40
60-80	672.46	N.A.	16.30
70-80	251.68	N.A.	6.10
80-90	107.63	N.A.	2.60
90-110	98.24	N.A.	2.40
90-120	138.02	N.A.	3.30
90-130	169.00	N.A.	4.10
90-150	203.21	N.A.	4.90
90-180	211.80	N.A.	5.10
110-180	113.56	N.A.	2.70
0-180	4136.11	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	139.89
10-20	399.78
20-30	601.89
30-40	711.63
40-50	702.97
50-60	588.07
60-70	420.78
70-80	251.68
80-90	107.63
90-100	52.03
100-110	46.21
110-120	39.78
120-130	30.99
130-140	21.71
140-150	12.50
150-160	6.50
160-170	2.01
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	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	14.4	15.9	14.8	16.3	16.7	15.8	17.3	16.2	17.7	18.1
	3H	15.7	17.0	16.1	17.5	17.9	17.6	18.9	18.0	19.3	19.8
	4H	16.1	17.4	16.6	17.8	18.3	18.3	19.6	18.8	20.1	20.6
	6H	16.3	17.5	16.8	18.0	18.5	19.1	20.2	19.5	20.7	21.2
	8H	16.4	17.5	16.9	18.0	18.5	19.4	20.5	19.9	21.0	21.5
	12H	16.4	17.5	16.9	18.0	18.5	19.7	20.7	20.2	21.2	21.8

UGR Viewed Endwise

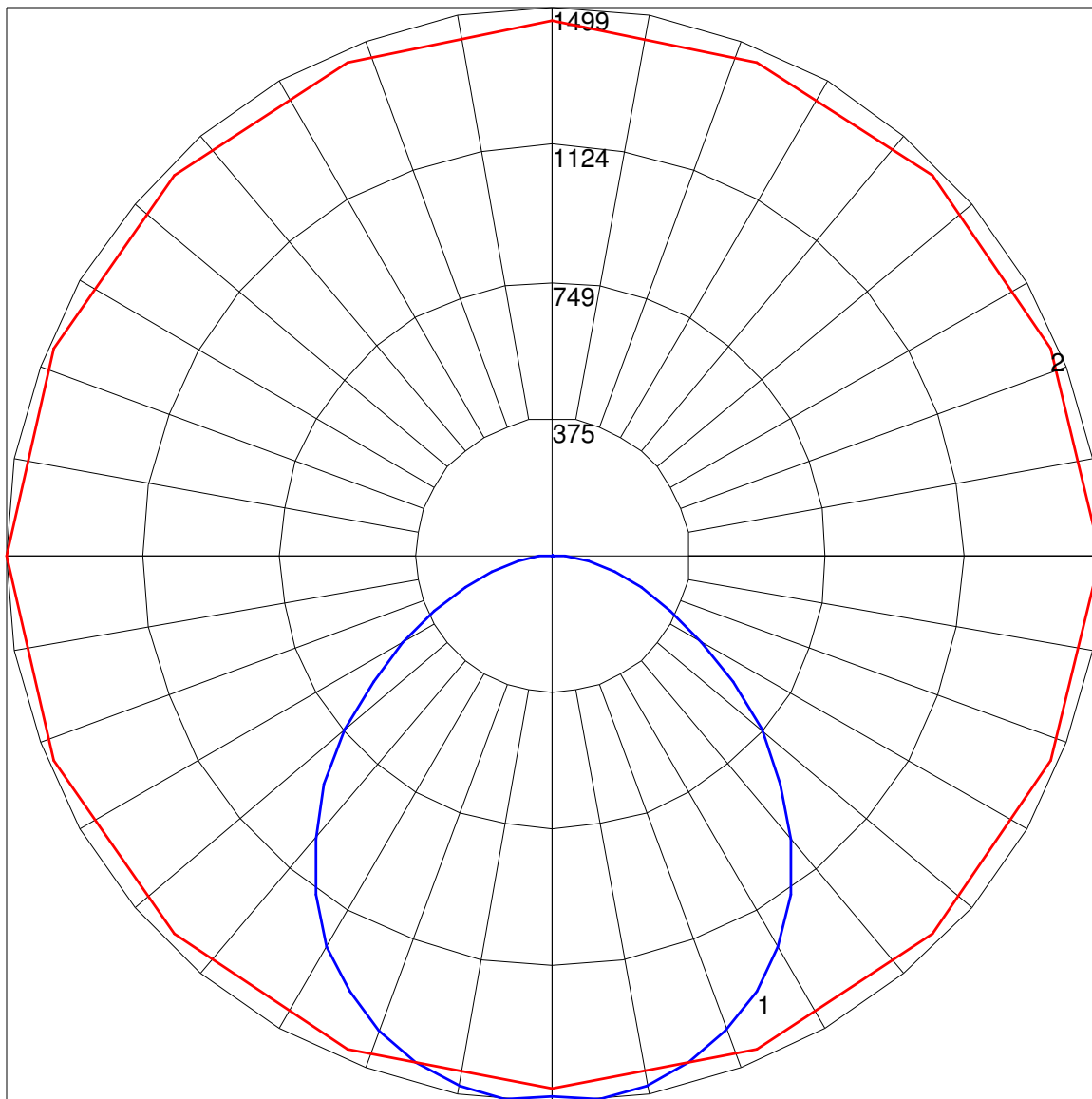
4H	2H	15.1	16.3	15.5	16.8	17.3	16.2	17.4	16.7	17.9	18.4
	3H	16.6	17.6	17.1	18.1	18.7	18.2	19.3	18.7	19.8	20.3
	4H	17.1	18.0	17.6	18.6	19.1	19.1	20.1	19.6	20.6	21.1
	6H	17.4	18.3	18.0	18.8	19.4	20.0	20.8	20.5	21.4	21.9
	8H	17.5	18.3	18.1	18.8	19.4	20.4	21.2	20.9	21.7	22.3
	12H	17.6	18.3	18.1	18.8	19.4	20.8	21.5	21.3	22.1	22.6

8H	4H	17.5	18.3	18.0	18.8	19.4	19.3	20.1	19.8	20.6	21.2
	6H	17.9	18.6	18.5	19.2	19.8	20.3	21.0	20.9	21.5	22.1
	8H	18.1	18.7	18.7	19.3	19.9	20.8	21.4	21.4	22.0	22.6
	12H	18.2	18.7	18.7	19.3	19.9	21.3	21.9	21.9	22.4	23.1

12H	4H	17.6	18.3	18.1	18.8	19.4	19.3	20.0	19.9	20.6	21.2
	6H	18.1	18.7	18.7	19.2	19.9	20.3	20.9	20.9	21.5	22.1
	8H	18.3	18.8	18.8	19.4	20.0	20.9	21.4	21.5	22.0	22.7

Maximum UGR = 23.1

POLAR GRAPH



Maximum Candela = 1498.668 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.)