

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 17-4-L55-835-AF-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] 08-22-2023

[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-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	5268
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	143
Total Luminaire Watts	36.82
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	4733	4410	4490
55	3918	3748	3919
65	3066	3041	3280
75	2303	2338	2726
85	1115	1532	2163

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 17-4-L55-835-AF-DIM-UNV\_.IES**

**CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	1887.365	1887.365	1887.365	1887.365	1887.365
5	1908.845	1884.564	1869.622	1864.952	1862.151
10	1878.961	1854.680	1840.672	1837.870	1829.465
15	1835.068	1813.589	1799.581	1796.779	1791.176
20	1768.763	1747.284	1734.210	1742.614	1732.342
25	1682.846	1667.904	1653.896	1667.904	1658.566
30	1577.318	1567.979	1556.773	1571.715	1570.781
35	1448.443	1452.179	1437.237	1464.319	1468.989
40	1294.354	1300.891	1298.089	1334.510	1345.717
45	1129.057	1138.396	1160.809	1186.958	1205.635
50	947.885	959.092	1006.719	1027.265	1051.545
55	769.515	783.523	843.291	877.844	905.861
60	603.285	623.830	689.201	724.689	760.176
65	454.798	483.748	547.252	584.607	612.623
70	328.725	358.609	417.443	461.335	481.881
75	220.395	245.610	302.576	355.807	372.617
80	127.007	153.156	204.519	256.816	272.692
85	44.826	70.041	114.867	174.635	178.371
90	0.000	21.479	63.504	110.197	121.404
95	0.000	21.479	61.636	100.859	114.867
100	0.000	22.413	60.702	96.189	107.396
105	0.000	21.479	59.768	89.652	99.925
110	0.000	24.281	57.900	85.917	94.322
115	0.000	22.413	55.099	81.247	89.652
120	0.000	25.215	52.297	74.710	83.115
125	0.000	22.413	47.628	68.173	75.644
130	0.000	21.479	42.024	59.768	67.239
135	0.000	20.545	39.223	53.231	58.834
140	0.000	19.611	34.553	47.628	53.231
145	0.000	0.000	29.884	42.958	46.694
150	0.000	0.000	27.082	34.553	40.157
155	0.000	0.000	24.281	31.752	29.884
160	0.000	0.000	21.479	26.149	26.149
165	0.000	0.000	0.000	20.545	24.281
170	0.000	0.000	0.000	0.000	20.545
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-DIM-UNV\_.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	687.37	N.A.	13.00
0-30	1453.99	N.A.	27.60
0-40	2360.39	N.A.	44.80
0-60	4004.77	N.A.	76.00
0-80	4861.29	N.A.	92.30
0-90	4998.38	N.A.	94.90
10-90	4820.2	N.A.	91.50
20-40	1673.02	N.A.	31.80
20-50	2568.39	N.A.	48.80
40-70	2180.33	N.A.	41.40
60-80	856.51	N.A.	16.30
70-80	320.57	N.A.	6.10
80-90	137.09	N.A.	2.60
90-110	125.13	N.A.	2.40
90-120	175.79	N.A.	3.30
90-130	215.26	N.A.	4.10
90-150	258.83	N.A.	4.90
90-180	269.77	N.A.	5.10
110-180	144.64	N.A.	2.70
0-180	5268.14	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	178.18
10-20	509.19
20-30	766.62
30-40	906.39
40-50	895.37
50-60	749.02
60-70	535.94
70-80	320.57
80-90	137.09
90-100	66.27
100-110	58.86
110-120	50.66
120-130	39.47
130-140	27.66
140-150	15.92
150-160	8.28
160-170	2.56
170-180	0.09

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 17-4-L55-835-AF-DIM-UNV\_.IES**

**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

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 17-4-L55-835-AF-DIM-UNV\_.IES**

**UGR TABLE - CORRECTED**

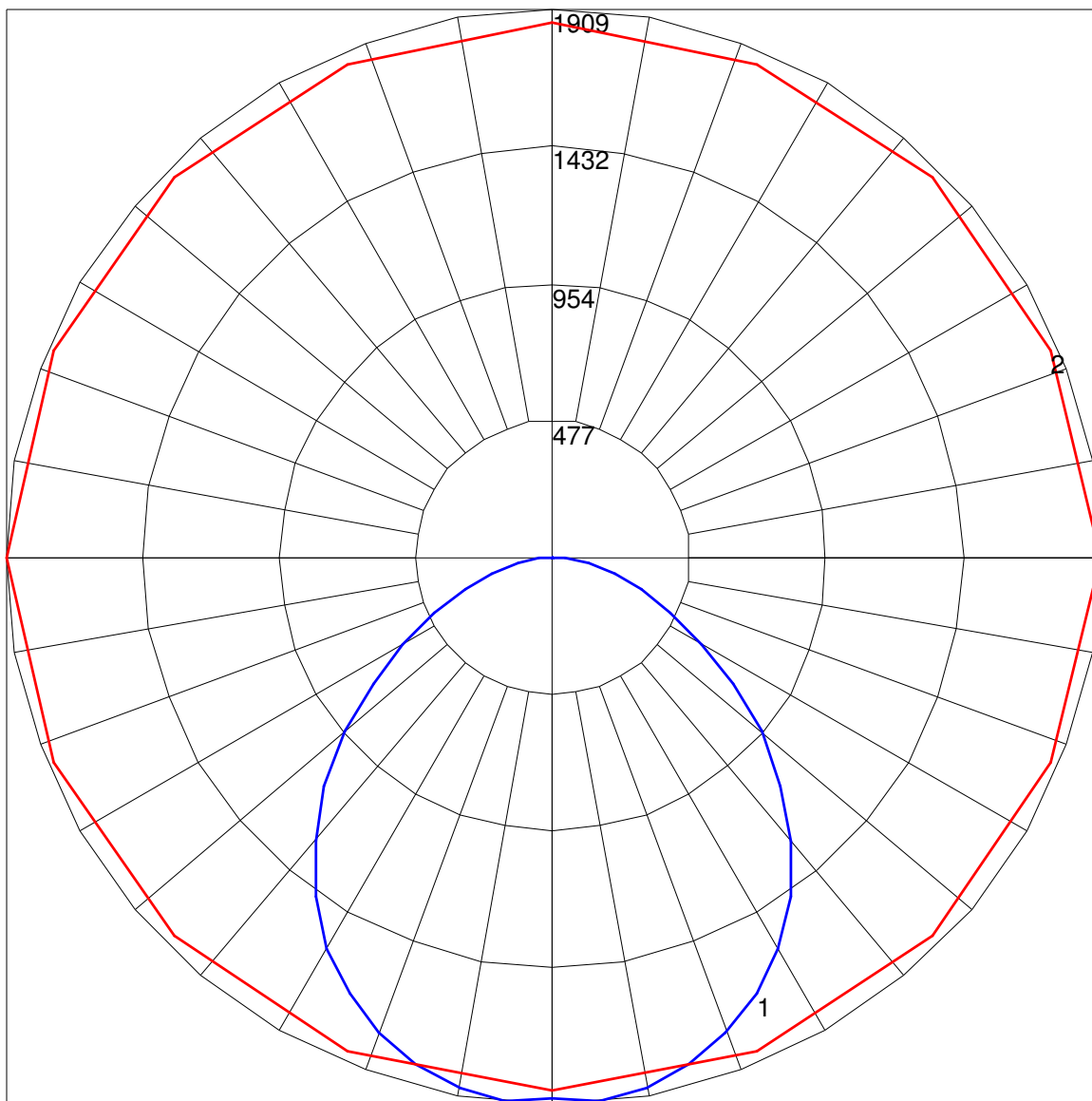
Reflectances

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	15.3	16.8	15.7	17.2	17.6	16.7	18.2	17.1	18.6	19.0
	3H	16.6	17.9	17.0	18.4	18.8	18.5	19.8	18.9	20.2	20.7
	4H	17.0	18.3	17.5	18.7	19.2	19.2	20.5	19.7	21.0	21.5
	6H	17.2	18.4	17.7	18.9	19.4	20.0	21.1	20.4	21.6	22.1
	8H	17.3	18.4	17.8	18.9	19.4	20.3	21.4	20.8	21.9	22.4
	12H	17.3	18.4	17.8	18.9	19.4	20.6	21.6	21.1	22.1	22.7
4H	2H	16.0	17.2	16.4	17.7	18.2	17.1	18.3	17.6	18.8	19.3
	3H	17.5	18.5	18.0	19.0	19.6	19.1	20.2	19.6	20.7	21.2
	4H	18.0	18.9	18.5	19.5	20.0	20.0	21.0	20.5	21.5	22.0
	6H	18.3	19.2	18.9	19.7	20.3	20.9	21.7	21.4	22.3	22.8
	8H	18.4	19.2	19.0	19.7	20.3	21.3	22.1	21.8	22.6	23.2
	12H	18.5	19.2	19.0	19.7	20.3	21.7	22.4	22.2	23.0	23.5
8H	4H	18.4	19.2	18.9	19.7	20.3	20.2	21.0	20.7	21.5	22.1
	6H	18.8	19.5	19.4	20.1	20.7	21.2	21.9	21.8	22.4	23.0
	8H	19.0	19.6	19.6	20.2	20.8	21.7	22.3	22.3	22.9	23.5
	12H	19.1	19.6	19.6	20.2	20.8	22.2	22.8	22.8	23.3	24.0
12H	4H	18.5	19.2	19.0	19.7	20.3	20.2	20.9	20.8	21.5	22.1
	6H	19.0	19.6	19.6	20.1	20.8	21.2	21.8	21.8	22.4	23.0
	8H	19.2	19.7	19.7	20.3	20.9	21.8	22.3	22.4	22.9	23.6

Maximum UGR = 24.0

POLAR GRAPH



Maximum Candela = 1908.845 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.)