

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 39-4-L30-835-A-(L15)-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]GEN FROM BALLABS TEST NO. 19011.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUE DATE] 12/04/2025

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 2-56LED 22"ARRAYS 4'PENDANT MOUNT LUMINAIRE

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC RIBBED LENS

[LUMCAT] 39-4-L30-835-A-(L15)-DIM-UNV

[LAMPCAT] HLM 80 CRI 3500K CCT

[_SEARCH_SOURCETYPE] LED

[_SEARCH_APPLICATION] Indoor, Architectural, Commercial, Direct, Linear

[_SEARCH_MOUNTING] Pendant, Surface

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1502
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	150
Total Luminaire Watts	10
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.18
Spacing Criterion (90-270)	1.18
Spacing Criterion (Diagonal)	1.30
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.01 ft
Luminous Width (90-270)	0.79 ft
Luminous Height	0.18 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1489	1347	1331
55	1242	1107	1113
65	1028	906	967
75	749	719	834
85	442	599	777

IES INDOOR REPORT
 PHOTOMETRIC FILENAME : 39-4-L30-835-A-(L15)-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	574.081	574.081	574.081	574.081	574.081
5	577.269	576.979	576.689	576.689	576.979
10	564.518	564.228	564.228	564.518	565.098
15	544.522	545.102	545.971	546.551	547.130
20	528.004	528.294	530.033	530.322	530.322
25	483.666	484.825	486.274	487.143	487.143
30	446.862	448.311	450.339	451.498	451.788
35	415.854	418.172	421.360	422.809	423.678
40	364.850	367.748	372.095	374.703	375.862
45	324.279	328.336	334.132	338.189	339.638
50	270.957	275.014	282.839	288.924	291.243
55	223.431	228.357	237.921	245.165	248.353
60	178.223	183.439	193.582	204.304	208.651
65	140.260	145.766	158.807	173.586	178.223
70	102.007	108.673	125.770	141.709	148.085
75	66.653	74.767	93.603	110.701	116.787
80	39.122	49.555	70.130	87.518	93.603
85	17.098	28.400	48.685	65.204	70.999
90	0.000	12.461	28.979	42.310	47.526
95	0.000	5.216	18.547	30.428	35.065
100	0.000	0.000	11.302	20.575	23.763
105	0.000	0.000	7.245	13.620	16.518
110	0.000	0.000	0.000	9.273	11.302
115	0.000	0.000	0.000	6.955	8.404
120	0.000	0.000	0.000	5.796	6.375
125	0.000	0.000	0.000	0.000	0.000
130	0.000	0.000	0.000	0.000	0.000
135	0.000	0.000	0.000	0.000	0.000
140	0.000	0.000	0.000	0.000	0.000
145	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000
155	0.000	0.000	0.000	0.000	0.000
160	0.000	0.000	0.000	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000
170	0.000	0.000	0.000	0.000	0.000
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 : 39-4-L30-835-A-(L15)-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	209.07	N.A.	13.90
0-30	433.99	N.A.	28.90
0-40	694.26	N.A.	46.20
0-60	1161.29	N.A.	77.30
0-80	1419.28	N.A.	94.50
0-90	1470.63	N.A.	97.90
10-90	1416.05	N.A.	94.30
20-40	485.19	N.A.	32.30
20-50	739.90	N.A.	49.30
40-70	624.94	N.A.	41.60
60-80	257.98	N.A.	17.20
70-80	100.08	N.A.	6.70
80-90	51.36	N.A.	3.40
90-110	27.87	N.A.	1.90
90-120	30.74	N.A.	2.00
90-130	31.26	N.A.	2.10
90-150	31.26	N.A.	2.10
90-180	31.26	N.A.	2.10
110-180	3.39	N.A.	0.20
0-180	1501.9	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	54.59
10-20	154.48
20-30	224.92
30-40	260.27
40-50	254.72
50-60	212.32
60-70	157.90
70-80	100.08
80-90	51.36
90-100	20.11
100-110	7.75
110-120	2.88
120-130	0.52
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 39-4-L30-835-A-(L15)-DIM-UNV_.IES

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	34	34	34	34	33	33	33	33	32	32	32	30	30	30	29	29	29	28
1	31	30	29	27	30	29	28	27	28	27	26	27	26	25	25	25	24	24
2	28	26	24	22	28	25	24	22	24	23	22	23	22	21	22	21	20	20
3	26	23	21	19	25	23	20	19	22	20	18	21	19	18	20	19	17	17
4	24	20	18	16	23	20	18	16	19	17	16	18	17	15	18	16	15	14
5	22	18	16	14	21	18	16	14	17	15	14	17	15	13	16	14	13	13
6	20	17	14	12	20	16	14	12	16	14	12	15	13	12	15	13	12	11
7	19	15	13	11	18	15	12	11	14	12	11	14	12	11	13	12	10	10
8	18	14	11	10	17	14	11	10	13	11	10	13	11	9	12	11	9	9
9	17	13	10	9	16	12	10	9	12	10	9	12	10	9	11	10	8	8
10	16	12	9	8	15	12	9	8	11	9	8	11	9	8	11	9	8	7

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 39-4-L30-835-A-(L15)-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

X=2H	Y=2H	15.6	17.1	16.0	17.5	17.9	16.7	18.3	17.1	18.7	19.0
	3H	16.9	18.4	17.3	18.7	19.1	18.8	20.2	19.2	20.6	21.0
	4H	17.3	18.7	17.8	19.1	19.5	19.7	21.0	20.1	21.4	21.8
	6H	17.6	18.9	18.0	19.3	19.7	20.6	21.8	21.0	22.2	22.7
	8H	17.7	18.9	18.1	19.3	19.7	21.0	22.2	21.5	22.6	23.1
	12H	17.7	18.8	18.2	19.3	19.7	21.4	22.6	21.9	23.0	23.5

UGR Viewed Endwise

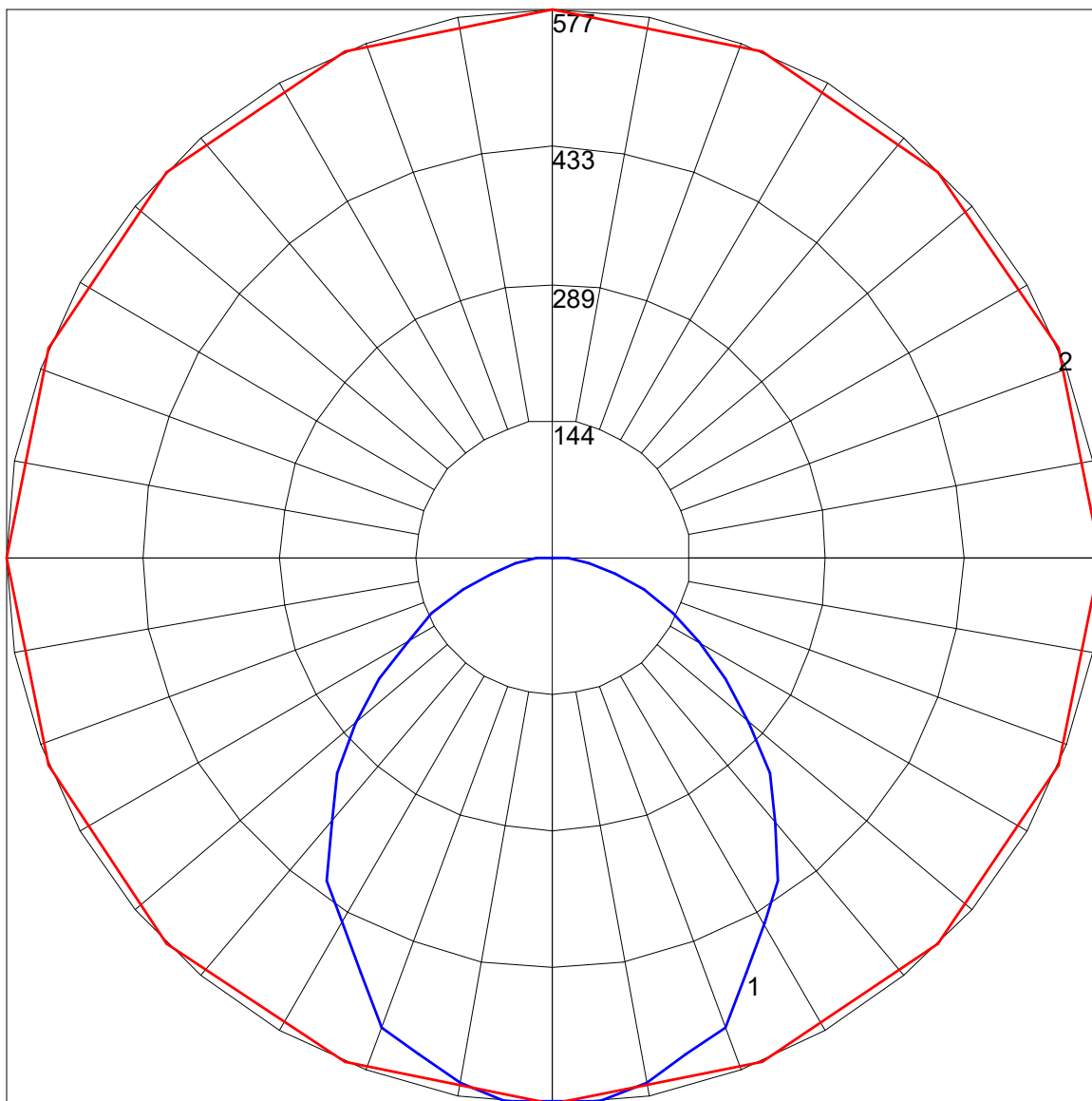
4H	2H	16.2	17.6	16.7	18.0	18.4	17.2	18.5	17.6	18.9	19.3
	3H	17.8	18.9	18.3	19.4	19.8	19.4	20.6	19.9	21.0	21.4
	4H	18.3	19.4	18.8	19.8	20.3	20.5	21.5	21.0	22.0	22.4
	6H	18.7	19.6	19.2	20.1	20.6	21.6	22.5	22.0	22.9	23.4
	8H	18.8	19.7	19.3	20.1	20.6	22.1	22.9	22.6	23.4	23.9
	12H	18.9	19.6	19.4	20.1	20.7	22.6	23.4	23.2	23.9	24.4

8H	4H	18.8	19.6	19.3	20.1	20.6	20.7	21.5	21.2	22.0	22.5
	6H	19.3	20.0	19.8	20.5	21.0	21.9	22.6	22.4	23.1	23.7
	8H	19.4	20.1	20.0	20.6	21.2	22.5	23.2	23.1	23.7	24.3
	12H	19.6	20.1	20.1	20.7	21.3	23.3	23.8	23.8	24.4	25.0

12H	4H	18.9	19.6	19.4	20.2	20.7	20.7	21.4	21.2	22.0	22.5
	6H	19.4	20.1	20.0	20.6	21.2	21.9	22.6	22.5	23.1	23.7
	8H	19.7	20.3	20.2	20.8	21.4	22.6	23.2	23.2	23.7	24.3

Maximum UGR = 25.0

POLAR GRAPH



Maximum Candela = 577.269 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.)