

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 39W-4-L84-835-A-(L60)-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM BALLABS TEST NO. 19087.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUE DATE] 7/7/2026

[MANUFAC] WILLIAMS INDOOR

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

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

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC RIBBED LENS

[LUMCAT] 39W-4-L84-835-A-(L60)-DIM-UNV

[_SEARCH_SOURCETYPE] LED

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

[_SEARCH_MOUNTING] SURFACE

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6135
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	136
Total Luminaire Watts	45
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	6082	5502	5436
55	5074	4522	4545
65	4198	3701	3948
75	3061	2935	3407
85	1805	2445	3174

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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	2344.864	2344.864	2344.864	2344.864	2344.864
5	2357.885	2356.701	2355.517	2355.517	2356.701
10	2305.803	2304.619	2304.619	2305.803	2308.170
15	2224.129	2226.496	2230.047	2232.415	2234.782
20	2156.659	2157.843	2164.945	2166.129	2166.129
25	1975.557	1980.292	1986.210	1989.761	1989.761
30	1825.230	1831.148	1839.434	1844.169	1845.352
35	1698.576	1708.046	1721.066	1726.985	1730.536
40	1490.249	1502.086	1519.841	1530.494	1535.229
45	1324.535	1341.106	1364.780	1381.351	1387.269
50	1106.738	1123.309	1155.269	1180.126	1189.595
55	912.615	932.737	971.799	1001.391	1014.411
60	727.961	749.268	790.696	834.492	852.247
65	572.900	595.390	648.655	709.022	727.961
70	416.654	443.879	513.716	578.818	604.859
75	272.246	305.389	382.328	452.165	477.022
80	159.796	202.409	286.450	357.470	382.328
85	69.837	116.000	198.858	266.327	290.001
90	0.000	50.898	118.368	172.817	194.123
95	0.000	21.306	75.755	124.286	143.225
100	0.000	0.000	46.163	84.041	97.062
105	0.000	0.000	29.592	55.633	67.470
110	0.000	0.000	0.000	37.878	46.163
115	0.000	0.000	0.000	28.408	34.327
120	0.000	0.000	0.000	23.674	26.041
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

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	853.96	N.A.	13.90
0-30	1772.65	N.A.	28.90
0-40	2835.73	N.A.	46.20
0-60	4743.36	N.A.	77.30
0-80	5797.11	N.A.	94.50
0-90	6006.88	N.A.	97.90
10-90	5783.91	N.A.	94.30
20-40	1981.77	N.A.	32.30
20-50	3022.17	N.A.	49.30
40-70	2552.58	N.A.	41.60
60-80	1053.75	N.A.	17.20
70-80	408.80	N.A.	6.70
80-90	209.77	N.A.	3.40
90-110	113.83	N.A.	1.90
90-120	125.57	N.A.	2.00
90-130	127.69	N.A.	2.10
90-150	127.69	N.A.	2.10
90-180	127.69	N.A.	2.10
110-180	13.86	N.A.	0.20
0-180	6134.57	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	222.97
10-20	631.00
20-30	918.68
30-40	1063.09
40-50	1040.4
50-60	867.23
60-70	644.95
70-80	408.80
80-90	209.77
90-100	82.16
100-110	31.67
110-120	11.74
120-130	2.12
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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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	119	119	119	119	116	116	116	116	110	110	110	105	105	105	100	100	100	98
1	108	103	99	95	105	101	97	93	96	93	90	92	89	86	88	86	83	81
2	98	90	83	77	95	88	82	76	84	79	74	80	76	72	77	74	70	68
3	90	79	71	65	87	78	70	64	74	68	63	71	66	61	69	64	60	58
4	82	71	62	55	80	69	61	55	66	59	54	64	58	53	61	56	52	50
5	76	63	54	48	74	62	54	48	60	52	47	58	51	46	55	50	45	43
6	70	57	48	42	68	56	48	42	54	47	41	52	46	41	50	45	40	38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	46	40	36	34
8	61	48	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30
9	57	44	36	30	55	43	35	30	42	35	30	41	34	30	39	34	29	27
10	53	40	33	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

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UGR TABLE - CORRECTED

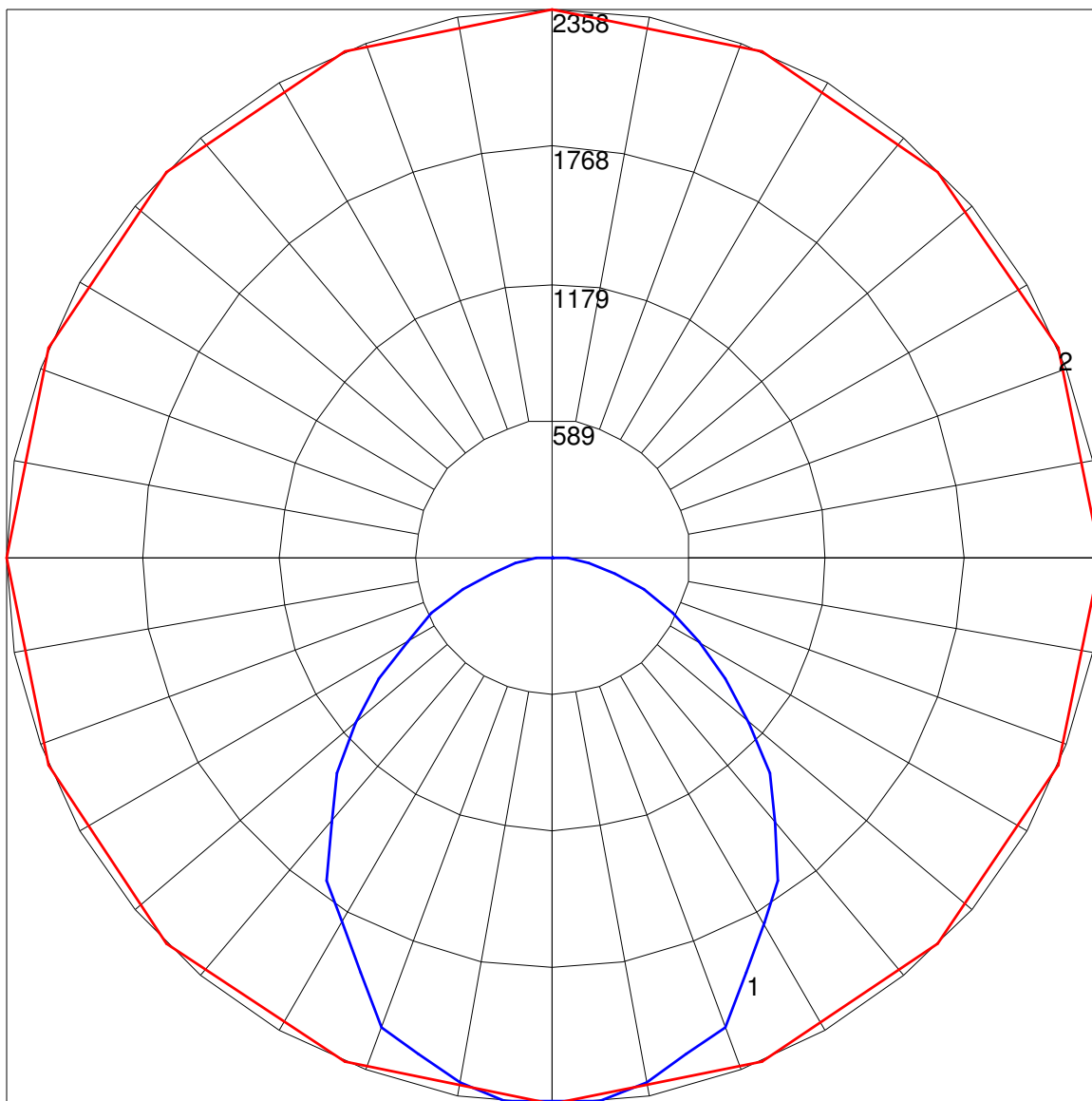
Reflectances

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	16.2	17.7	16.6	18.1	18.5	17.3	18.9	17.7	19.3	19.6
	3H	17.5	19.0	17.9	19.3	19.7	19.4	20.8	19.8	21.2	21.6
	4H	17.9	19.3	18.4	19.7	20.1	20.3	21.6	20.7	22.0	22.4
	6H	18.2	19.5	18.6	19.9	20.3	21.2	22.4	21.6	22.8	23.3
	8H	18.3	19.5	18.7	19.9	20.3	21.6	22.8	22.1	23.2	23.7
	12H	18.3	19.4	18.8	19.9	20.3	22.0	23.2	22.5	23.6	24.1
4H	2H	16.8	18.2	17.3	18.6	19.0	17.8	19.1	18.2	19.5	19.9
	3H	18.4	19.5	18.9	20.0	20.4	20.0	21.2	20.5	21.6	22.0
	4H	18.9	20.0	19.4	20.4	20.9	21.1	22.1	21.6	22.6	23.0
	6H	19.3	20.2	19.8	20.7	21.2	22.2	23.1	22.6	23.5	24.0
	8H	19.4	20.3	19.9	20.7	21.2	22.7	23.5	23.2	24.0	24.5
	12H	19.5	20.2	20.0	20.7	21.3	23.2	24.0	23.8	24.5	25.0
8H	4H	19.4	20.2	19.9	20.7	21.2	21.3	22.1	21.8	22.6	23.1
	6H	19.9	20.6	20.4	21.1	21.6	22.5	23.2	23.0	23.7	24.3
	8H	20.0	20.7	20.6	21.2	21.8	23.1	23.8	23.7	24.3	24.9
	12H	20.2	20.7	20.7	21.3	21.9	23.9	24.4	24.4	25.0	25.6
12H	4H	19.5	20.2	20.0	20.8	21.3	21.3	22.0	21.8	22.6	23.1
	6H	20.0	20.7	20.6	21.2	21.8	22.5	23.2	23.1	23.7	24.3
	8H	20.3	20.9	20.8	21.4	22.0	23.2	23.8	23.8	24.3	24.9

Maximum UGR = 25.6

POLAR GRAPH



Maximum Candela = 2357.885 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.)