

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 39-4-L52-840-A-(L31)-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] 10/23/2025

[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-L52-840-A-(L31)-DIM-UNV

[_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	3230
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	84
Total Luminaire Watts	38.3
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	3202	2897	2862
55	2671	2381	2393
65	2210	1949	2078
75	1612	1545	1794
85	950	1287	1671

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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	1234.542	1234.542	1234.542	1234.542	1234.542
5	1241.397	1240.774	1240.150	1240.150	1240.774
10	1213.976	1213.353	1213.353	1213.976	1215.223
15	1170.976	1172.223	1174.092	1175.339	1176.585
20	1135.454	1136.078	1139.817	1140.440	1140.440
25	1040.106	1042.599	1045.715	1047.584	1047.584
30	960.961	964.077	968.439	970.932	971.555
35	894.279	899.265	906.120	909.236	911.106
40	784.598	790.830	800.177	805.786	808.279
45	697.351	706.076	718.539	727.264	730.380
50	582.684	591.408	608.235	621.322	626.307
55	480.480	491.075	511.640	527.220	534.075
60	383.263	394.480	416.292	439.350	448.698
65	301.625	313.465	341.509	373.292	383.263
70	219.363	233.697	270.465	304.740	318.451
75	143.334	160.783	201.291	238.059	251.146
80	84.131	106.566	150.812	188.204	201.291
85	36.768	61.073	104.696	140.218	152.682
90	0.000	26.797	62.319	90.986	102.203
95	0.000	11.217	39.884	65.435	75.406
100	0.000	0.000	24.304	44.247	51.102
105	0.000	0.000	15.580	29.290	35.522
110	0.000	0.000	0.000	19.942	24.304
115	0.000	0.000	0.000	14.957	18.073
120	0.000	0.000	0.000	12.464	13.710
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	449.60	N.A.	13.90
0-30	933.28	N.A.	28.90
0-40	1492.98	N.A.	46.20
0-60	2497.32	N.A.	77.30
0-80	3052.11	N.A.	94.50
0-90	3162.55	N.A.	97.90
10-90	3045.16	N.A.	94.30
20-40	1043.38	N.A.	32.30
20-50	1591.14	N.A.	49.30
40-70	1343.9	N.A.	41.60
60-80	554.79	N.A.	17.20
70-80	215.23	N.A.	6.70
80-90	110.44	N.A.	3.40
90-110	59.93	N.A.	1.90
90-120	66.11	N.A.	2.00
90-130	67.23	N.A.	2.10
90-150	67.23	N.A.	2.10
90-180	67.23	N.A.	2.10
110-180	7.30	N.A.	0.20
0-180	3229.78	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	117.39
10-20	332.21
20-30	483.68
30-40	559.70
40-50	547.76
50-60	456.59
60-70	339.56
70-80	215.23
80-90	110.44
90-100	43.25
100-110	16.67
110-120	6.18
120-130	1.12
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

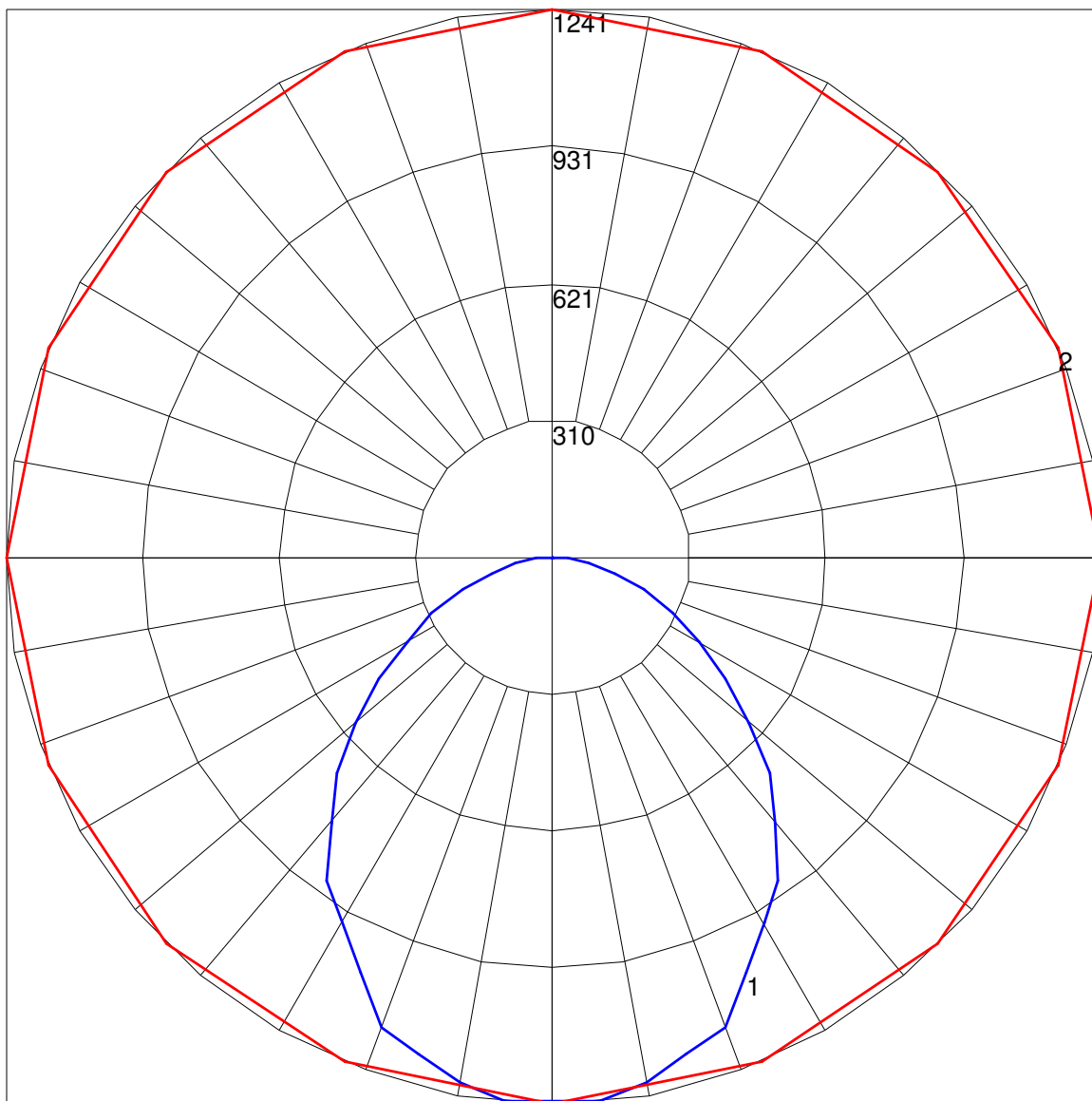
Reflectances

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	14.0	15.5	14.4	15.9	16.3	15.1	16.7	15.5	17.1	17.4
	3H	15.3	16.8	15.7	17.1	17.5	17.2	18.6	17.6	19.0	19.4
	4H	15.7	17.1	16.2	17.5	17.9	18.1	19.4	18.5	19.8	20.2
	6H	16.0	17.3	16.4	17.7	18.1	19.0	20.2	19.4	20.6	21.0
	8H	16.1	17.3	16.5	17.7	18.1	19.4	20.6	19.9	21.0	21.5
	12H	16.1	17.2	16.6	17.7	18.1	19.8	21.0	20.3	21.4	21.9
4H	2H	14.6	16.0	15.1	16.4	16.8	15.6	16.9	16.0	17.3	17.7
	3H	16.2	17.3	16.7	17.8	18.2	17.8	19.0	18.3	19.4	19.8
	4H	16.7	17.8	17.2	18.2	18.7	18.9	19.9	19.3	20.4	20.8
	6H	17.1	18.0	17.6	18.5	19.0	20.0	20.8	20.4	21.3	21.8
	8H	17.2	18.0	17.7	18.5	19.0	20.5	21.3	21.0	21.8	22.3
	12H	17.3	18.0	17.8	18.5	19.1	21.0	21.8	21.6	22.3	22.8
8H	4H	17.2	18.0	17.7	18.5	19.0	19.1	19.9	19.6	20.4	20.9
	6H	17.7	18.4	18.2	18.9	19.4	20.3	21.0	20.8	21.5	22.1
	8H	17.8	18.5	18.4	19.0	19.6	20.9	21.6	21.5	22.1	22.7
	12H	18.0	18.5	18.5	19.1	19.7	21.7	22.2	22.2	22.8	23.4
12H	4H	17.3	18.0	17.8	18.6	19.1	19.1	19.8	19.6	20.4	20.9
	6H	17.8	18.5	18.4	19.0	19.6	20.3	21.0	20.9	21.5	22.1
	8H	18.1	18.7	18.6	19.2	19.8	21.0	21.6	21.6	22.1	22.7

Maximum UGR = 23.4

POLAR GRAPH



Maximum Candela = 1241.397 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.)