

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 39-4-L52-840-A-(L36)-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-(L36)-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	3852
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	100
Total Luminaire Watts	38.6
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	3819	3455	3413
55	3186	2839	2854
65	2636	2324	2479
75	1922	1843	2139
85	1133	1535	1993

IES INDOOR REPORT
 PHOTOMETRIC FILENAME : 39-4-L52-840-A-(L36)-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	1472.277	1472.277	1472.277	1472.277	1472.277
5	1480.452	1479.709	1478.966	1478.966	1479.709
10	1447.751	1447.008	1447.008	1447.751	1449.238
15	1396.471	1397.957	1400.187	1401.673	1403.159
20	1354.108	1354.852	1359.311	1360.054	1360.054
25	1240.399	1243.372	1247.088	1249.317	1249.317
30	1146.013	1149.729	1154.931	1157.904	1158.647
35	1066.490	1072.436	1080.611	1084.327	1086.557
40	935.687	943.119	954.267	960.956	963.929
45	831.640	842.044	856.908	867.313	871.029
50	694.891	705.296	725.362	740.969	746.915
55	573.006	585.641	610.166	628.746	636.921
60	457.067	470.445	496.457	523.955	535.103
65	359.708	373.829	407.273	445.176	457.067
70	261.606	278.700	322.548	363.424	379.775
75	170.936	191.745	240.053	283.902	299.509
80	100.332	127.087	179.854	224.446	240.053
85	43.849	72.833	124.857	167.220	182.084
90	0.000	31.958	74.320	108.507	121.885
95	0.000	13.378	47.565	78.036	89.927
100	0.000	0.000	28.985	52.767	60.942
105	0.000	0.000	18.580	34.930	42.362
110	0.000	0.000	0.000	23.782	28.985
115	0.000	0.000	0.000	17.837	21.553
120	0.000	0.000	0.000	14.864	16.350
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-L52-840-A-(L36)-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	536.18	N.A.	13.90
0-30	1113.00	N.A.	28.90
0-40	1780.48	N.A.	46.20
0-60	2978.23	N.A.	77.30
0-80	3639.85	N.A.	94.50
0-90	3771.56	N.A.	97.90
10-90	3631.56	N.A.	94.30
20-40	1244.3	N.A.	32.30
20-50	1897.54	N.A.	49.30
40-70	1602.7	N.A.	41.60
60-80	661.62	N.A.	17.20
70-80	256.67	N.A.	6.70
80-90	131.71	N.A.	3.40
90-110	71.47	N.A.	1.90
90-120	78.84	N.A.	2.00
90-130	80.17	N.A.	2.10
90-150	80.17	N.A.	2.10
90-180	80.17	N.A.	2.10
110-180	8.70	N.A.	0.20
0-180	3851.73	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	139.99
10-20	396.19
20-30	576.82
30-40	667.48
40-50	653.24
50-60	544.51
60-70	404.95
70-80	256.67
80-90	131.71
90-100	51.58
100-110	19.89
110-120	7.37
120-130	1.33
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-L52-840-A-(L36)-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	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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 39-4-L52-840-A-(L36)-DIM-UNV_.IES

UGR TABLE - CORRECTED

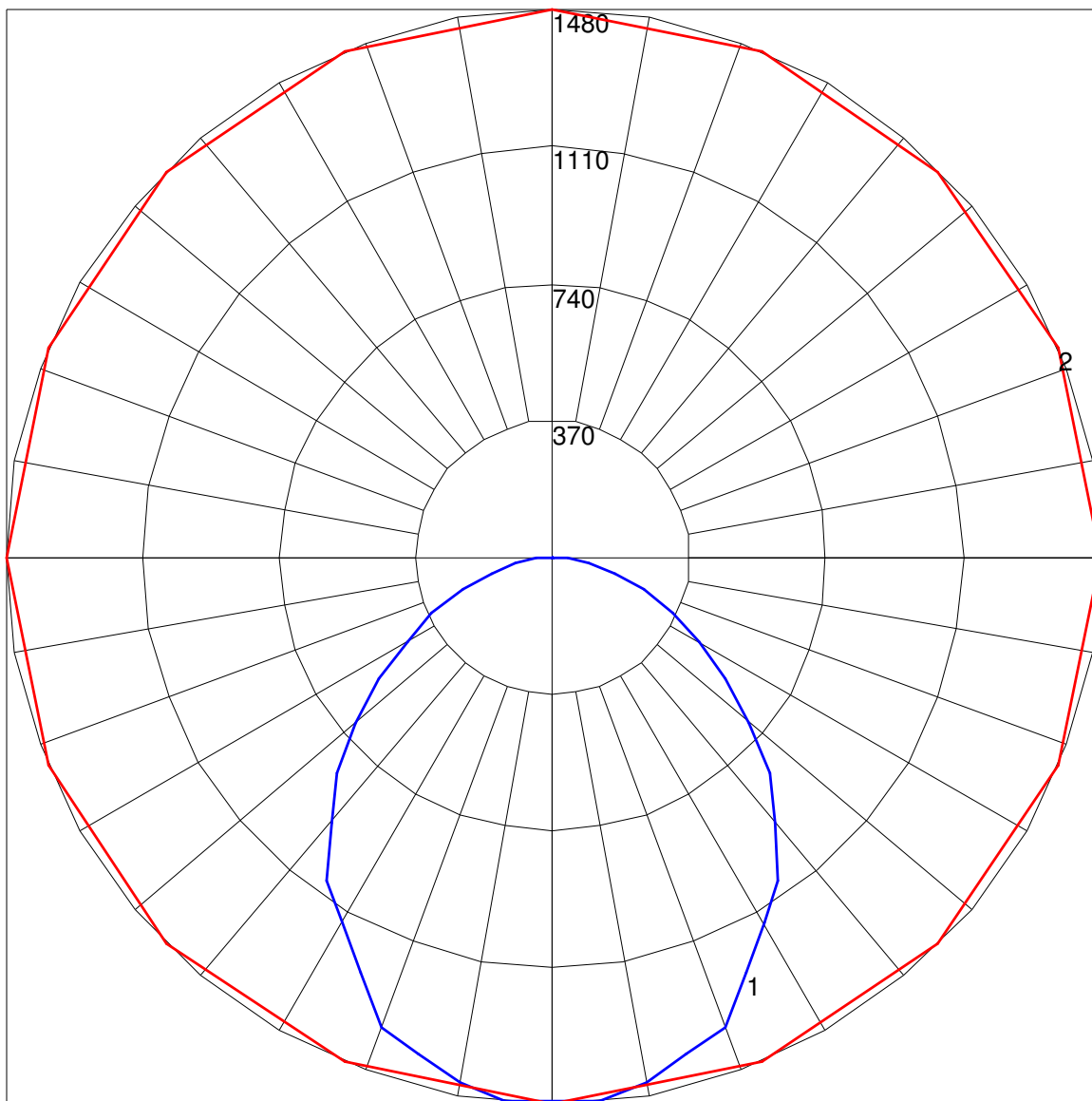
Reflectances

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	14.6	16.1	15.0	16.5	16.9	15.7	17.3	16.1	17.7	18.0
	3H	15.9	17.4	16.3	17.7	18.1	17.8	19.2	18.2	19.6	20.0
	4H	16.3	17.7	16.8	18.1	18.5	18.7	20.0	19.1	20.4	20.8
	6H	16.6	17.9	17.0	18.3	18.7	19.6	20.8	20.0	21.2	21.7
	8H	16.7	17.9	17.1	18.3	18.7	20.0	21.2	20.5	21.6	22.1
	12H	16.7	17.8	17.2	18.3	18.7	20.4	21.6	20.9	22.0	22.5
4H	2H	15.2	16.6	15.7	17.0	17.4	16.2	17.5	16.6	17.9	18.3
	3H	16.8	17.9	17.3	18.4	18.8	18.4	19.6	18.9	20.0	20.5
	4H	17.3	18.4	17.8	18.8	19.3	19.5	20.5	20.0	21.0	21.4
	6H	17.7	18.6	18.2	19.1	19.6	20.6	21.5	21.0	21.9	22.4
	8H	17.8	18.7	18.3	19.1	19.6	21.1	21.9	21.6	22.4	22.9
	12H	17.9	18.6	18.4	19.1	19.7	21.6	22.4	22.2	22.9	23.4
8H	4H	17.8	18.6	18.3	19.1	19.6	19.7	20.5	20.2	21.0	21.5
	6H	18.3	19.0	18.8	19.5	20.0	20.9	21.6	21.4	22.1	22.7
	8H	18.4	19.1	19.0	19.6	20.2	21.5	22.2	22.1	22.7	23.3
	12H	18.6	19.1	19.1	19.7	20.3	22.3	22.8	22.8	23.4	24.0
12H	4H	17.9	18.6	18.4	19.2	19.7	19.7	20.4	20.2	21.0	21.5
	6H	18.4	19.1	19.0	19.6	20.2	20.9	21.6	21.5	22.1	22.7
	8H	18.7	19.3	19.2	19.8	20.4	21.6	22.2	22.2	22.7	23.3

Maximum UGR = 24.0

POLAR GRAPH



Maximum Candela = 1480.452 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.)