

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 39W-4-L52-940-A-(L40)-EM10WLP-DIM-UNV_(EMER MODE).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] 05-20-2026

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO 64836

[LUMINAIRE] 4' SURFACE MOUNT LED LUMINAIRE

[MORE] WITH FROSTED ACRYLIC RIBBED LENS

[LUMCAT] 39W-4-L52-940-A-(L40)-EM/10WLP-DIM-UNV

[LAMPCAT] HLM 90 CRI, 4000K CCT

[_SEARCH_SOURCE TYPE] LED

[_SEARCH_APPLICATION] INDOOR, ARCHITECTURAL, COMMERCIAL, DIRECT, LINEAR

[_SEARCH_MOUNTING] SURFACE, SUSPENDED

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1240
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	124
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	1229	1112	1099
55	1026	914	919
65	848	748	798
75	619	593	689
85	365	494	641

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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	473.938	473.938	473.938	473.938	473.938
5	476.570	476.331	476.092	476.092	476.331
10	466.043	465.804	465.804	466.043	466.522
15	449.536	450.014	450.732	451.210	451.689
20	435.899	436.138	437.574	437.813	437.813
25	399.295	400.252	401.448	402.166	402.166
30	368.911	370.107	371.782	372.739	372.978
35	343.312	345.226	347.858	349.054	349.772
40	301.206	303.598	307.187	309.340	310.297
45	267.712	271.061	275.846	279.195	280.392
50	223.691	227.041	233.500	238.524	240.438
55	184.456	188.523	196.418	202.399	205.030
60	147.134	151.440	159.814	168.666	172.254
65	115.793	120.339	131.105	143.306	147.134
70	84.213	89.716	103.831	116.989	122.253
75	55.026	61.724	77.275	91.390	96.415
80	32.298	40.910	57.897	72.251	77.275
85	14.115	23.446	40.193	53.829	58.614
90	0.000	10.287	23.924	34.929	39.236
95	0.000	4.306	15.311	25.120	28.948
100	0.000	0.000	9.330	16.986	19.618
105	0.000	0.000	5.981	11.244	13.637
110	0.000	0.000	0.000	7.656	9.330
115	0.000	0.000	0.000	5.742	6.938
120	0.000	0.000	0.000	4.785	5.263
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 : 39W-4-L52-940-A-(L40)-EM10WLP-DIM-UNV_(EMER MODE).IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	172.60	N.A.	13.90
0-30	358.28	N.A.	28.90
0-40	573.15	N.A.	46.20
0-60	958.72	N.A.	77.30
0-80	1171.7	N.A.	94.50
0-90	1214.1	N.A.	97.90
10-90	1169.03	N.A.	94.30
20-40	400.55	N.A.	32.30
20-50	610.83	N.A.	49.30
40-70	515.92	N.A.	41.60
60-80	212.98	N.A.	17.20
70-80	82.63	N.A.	6.70
80-90	42.40	N.A.	3.40
90-110	23.01	N.A.	1.90
90-120	25.38	N.A.	2.00
90-130	25.81	N.A.	2.10
90-150	25.81	N.A.	2.10
90-180	25.81	N.A.	2.10
110-180	2.80	N.A.	0.20
0-180	1239.9	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	45.07
10-20	127.54
20-30	185.68
30-40	214.87
40-50	210.28
50-60	175.28
60-70	130.36
70-80	82.63
80-90	42.40
90-100	16.61
100-110	6.40
110-120	2.37
120-130	0.43
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

X=2H	Y=2H	10.6	12.1	11.0	12.5	12.9	11.7	13.3	12.1	13.7	14.0
	3H	11.9	13.3	12.3	13.7	14.1	13.8	15.2	14.2	15.6	16.0
	4H	12.3	13.7	12.8	14.1	14.5	14.7	16.0	15.1	16.4	16.8
	6H	12.6	13.9	13.0	14.3	14.7	15.6	16.8	16.0	17.2	17.6
	8H	12.7	13.9	13.1	14.3	14.7	16.0	17.2	16.5	17.6	18.1
	12H	12.7	13.8	13.2	14.3	14.7	16.4	17.6	16.9	18.0	18.5

UGR Viewed Endwise

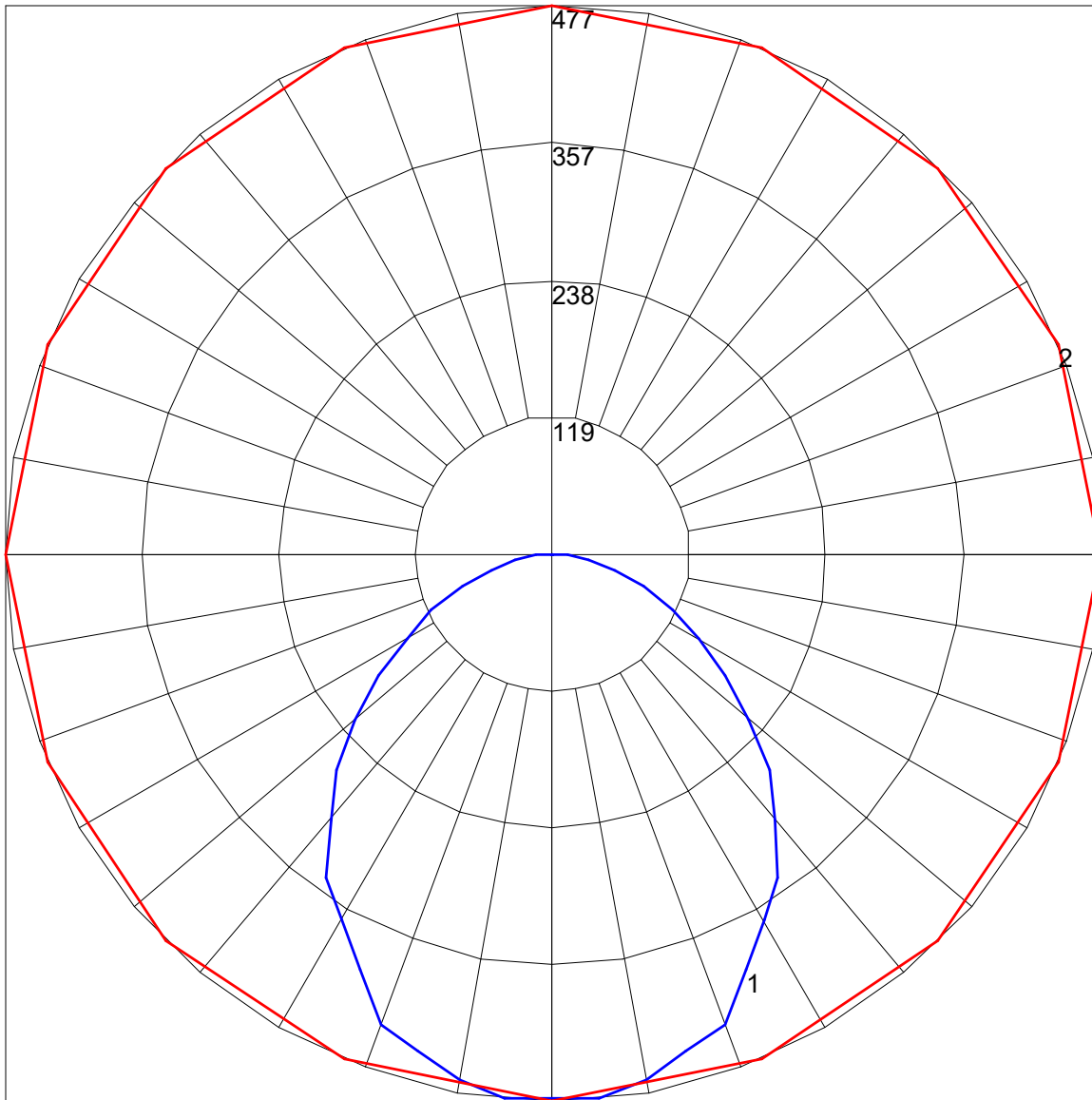
4H	2H	11.2	12.6	11.7	13.0	13.4	12.2	13.5	12.6	13.9	14.3
	3H	12.8	13.9	13.3	14.4	14.8	14.4	15.6	14.9	16.0	16.4
	4H	13.3	14.4	13.8	14.8	15.3	15.5	16.5	15.9	17.0	17.4
	6H	13.7	14.6	14.2	15.1	15.6	16.6	17.4	17.0	17.9	18.4
	8H	13.8	14.6	14.3	15.1	15.6	17.1	17.9	17.6	18.4	18.9
	12H	13.9	14.6	14.4	15.1	15.7	17.6	18.4	18.2	18.9	19.4
8H	4H	13.8	14.6	14.3	15.1	15.6	15.7	16.5	16.2	17.0	17.5
	6H	14.3	15.0	14.8	15.5	16.0	16.9	17.6	17.4	18.1	18.7
	8H	14.4	15.1	15.0	15.6	16.2	17.5	18.2	18.1	18.7	19.3
	12H	14.6	15.1	15.1	15.7	16.3	18.3	18.8	18.8	19.4	20.0
12H	4H	13.9	14.6	14.4	15.2	15.7	15.7	16.4	16.2	17.0	17.5
	6H	14.4	15.1	15.0	15.6	16.2	16.9	17.6	17.5	18.1	18.7
	8H	14.7	15.3	15.2	15.8	16.4	17.6	18.2	18.2	18.7	19.3

Maximum UGR = 20.0

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POLAR GRAPH



Maximum Candela = 476.57 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.)