



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 39W-4-L52-835-A-(L37)-EM10WLP-DIM-UNV_(EMERGENCY 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

[ISSUEDATE] 02-24-2021

[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-L52-835-A-EM10WLP-DIM-UNV (EMER MODE)

[LAMPCAT] HLM 80 CRI, 3500K CCT

[_SEARCH_SOURCETYPE] 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	1260
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	126
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	1249	1130	1117
55	1042	929	933
65	862	760	811
75	629	603	700
85	371	502	652

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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	481.586	481.586	481.586	481.586	481.586
5	484.260	484.017	483.774	483.774	484.017
10	473.563	473.320	473.320	473.563	474.050
15	456.789	457.276	458.005	458.491	458.977
20	442.933	443.176	444.634	444.877	444.877
25	405.738	406.710	407.926	408.655	408.655
30	374.864	376.079	377.781	378.754	378.997
35	348.852	350.797	353.471	354.686	355.416
40	306.066	308.497	312.143	314.331	315.304
45	272.032	275.435	280.297	283.701	284.916
50	227.301	230.704	237.268	242.373	244.318
55	187.432	191.565	199.587	205.665	208.339
60	149.508	153.884	162.392	171.387	175.034
65	117.662	122.281	133.220	145.618	149.508
70	85.572	91.163	105.506	118.877	124.225
75	55.914	62.720	78.522	92.865	97.970
80	32.819	41.571	58.831	73.417	78.522
85	14.343	23.824	40.841	54.698	59.560
90	0.000	10.453	24.310	35.493	39.869
95	0.000	4.376	15.559	25.526	29.415
100	0.000	0.000	9.481	17.260	19.934
105	0.000	0.000	6.078	11.426	13.857
110	0.000	0.000	0.000	7.779	9.481
115	0.000	0.000	0.000	5.834	7.050
120	0.000	0.000	0.000	4.862	5.348
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-L52-835-A-(L37)-EM10WLP-DIM-UNV_(EMERGENCY MODE).IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	175.39	N.A.	13.90
0-30	364.06	N.A.	28.90
0-40	582.40	N.A.	46.20
0-60	974.19	N.A.	77.30
0-80	1190.61	N.A.	94.50
0-90	1233.69	N.A.	97.90
10-90	1187.89	N.A.	94.30
20-40	407.01	N.A.	32.30
20-50	620.69	N.A.	49.30
40-70	524.25	N.A.	41.60
60-80	216.42	N.A.	17.20
70-80	83.96	N.A.	6.70
80-90	43.08	N.A.	3.40
90-110	23.38	N.A.	1.90
90-120	25.79	N.A.	2.00
90-130	26.23	N.A.	2.10
90-150	26.23	N.A.	2.10
90-180	26.23	N.A.	2.10
110-180	2.85	N.A.	0.20
0-180	1259.91	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	45.79
10-20	129.59
20-30	188.68
30-40	218.34
40-50	213.68
50-60	178.11
60-70	132.46
70-80	83.96
80-90	43.08
90-100	16.87
100-110	6.50
110-120	2.41
120-130	0.44
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	10.7	12.2	11.1	12.6	13.0	11.8	13.4	12.2	13.8	14.1
	3H	12.0	13.5	12.4	13.8	14.2	13.9	15.3	14.3	15.7	16.1
	4H	12.4	13.8	12.9	14.2	14.6	14.8	16.1	15.2	16.5	16.9
	6H	12.7	14.0	13.1	14.4	14.8	15.7	16.9	16.1	17.3	17.7
	8H	12.8	14.0	13.2	14.4	14.8	16.1	17.3	16.6	17.7	18.2
	12H	12.8	13.9	13.3	14.4	14.8	16.5	17.7	17.0	18.1	18.6

UGR Viewed Endwise

4H	2H	11.3	12.7	11.8	13.1	13.5	12.3	13.6	12.7	14.0	14.4
	3H	12.9	14.0	13.4	14.5	14.9	14.5	15.7	15.0	16.1	16.5
	4H	13.4	14.5	13.9	14.9	15.4	15.6	16.6	16.0	17.1	17.5
	6H	13.8	14.7	14.3	15.2	15.7	16.7	17.5	17.1	18.0	18.5
	8H	13.9	14.7	14.4	15.2	15.7	17.2	18.0	17.7	18.5	19.0
	12H	14.0	14.7	14.5	15.2	15.8	17.7	18.5	18.3	19.0	19.5

8H	4H	13.9	14.7	14.4	15.2	15.7	15.8	16.6	16.3	17.1	17.6
	6H	14.4	15.1	14.9	15.6	16.1	17.0	17.7	17.5	18.2	18.8
	8H	14.5	15.2	15.1	15.7	16.3	17.6	18.3	18.2	18.8	19.4
	12H	14.7	15.2	15.2	15.8	16.4	18.4	18.9	18.9	19.5	20.1

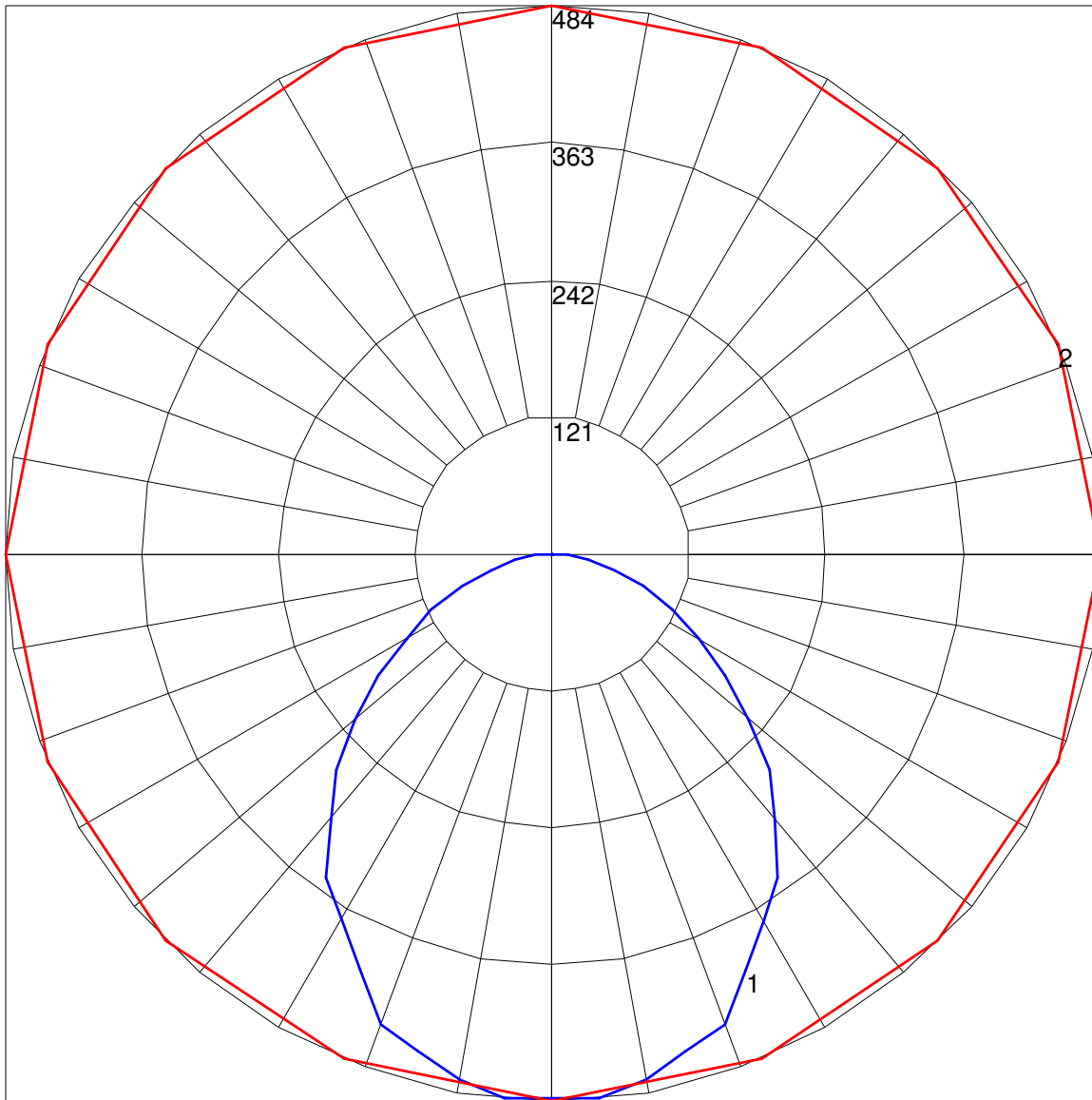
12H	4H	14.0	14.7	14.5	15.3	15.8	15.8	16.5	16.3	17.1	17.6
	6H	14.5	15.2	15.1	15.7	16.3	17.0	17.7	17.6	18.2	18.8
	8H	14.8	15.4	15.3	15.9	16.5	17.7	18.3	18.3	18.8	19.4

Maximum UGR = 20.1

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POLAR GRAPH



Maximum Candela = 484.26 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.)