



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 39W-4-L52-835-A-EM10W-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

[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-EM10W-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	1410
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	141
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	1398	1265	1249
55	1166	1039	1045
65	965	851	907
75	704	675	783
85	415	562	729

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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	538.918	538.918	538.918	538.918	538.918
5	541.910	541.638	541.366	541.366	541.638
10	529.940	529.668	529.668	529.940	530.484
15	511.169	511.713	512.529	513.073	513.618
20	495.663	495.935	497.567	497.839	497.839
25	454.040	455.128	456.488	457.305	457.305
30	419.491	420.851	422.755	423.843	424.115
35	390.382	392.558	395.551	396.911	397.727
40	342.502	345.223	349.303	351.752	352.840
45	304.416	308.225	313.666	317.474	318.835
50	254.360	258.169	265.514	271.227	273.403
55	209.745	214.370	223.347	230.149	233.141
60	167.307	172.203	181.725	191.790	195.871
65	131.669	136.838	149.080	162.954	167.307
70	95.759	102.016	118.067	133.029	139.014
75	62.570	70.187	87.870	103.921	109.633
80	36.726	46.519	65.834	82.157	87.870
85	16.051	26.660	45.703	61.210	66.651
90	0.000	11.698	27.204	39.718	44.615
95	0.000	4.897	17.411	28.565	32.917
100	0.000	0.000	10.610	19.315	22.308
105	0.000	0.000	6.801	12.786	15.506
110	0.000	0.000	0.000	8.705	10.610
115	0.000	0.000	0.000	6.529	7.889
120	0.000	0.000	0.000	5.441	5.985
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-EM10W-DIM-UNV_(EMER MODE).IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	196.27	N.A.	13.90
0-30	407.41	N.A.	28.90
0-40	651.73	N.A.	46.20
0-60	1090.16	N.A.	77.30
0-80	1332.34	N.A.	94.50
0-90	1380.55	N.A.	97.90
10-90	1329.31	N.A.	94.30
20-40	455.47	N.A.	32.30
20-50	694.58	N.A.	49.30
40-70	586.66	N.A.	41.60
60-80	242.18	N.A.	17.20
70-80	93.95	N.A.	6.70
80-90	48.21	N.A.	3.40
90-110	26.16	N.A.	1.90
90-120	28.86	N.A.	2.00
90-130	29.35	N.A.	2.10
90-150	29.35	N.A.	2.10
90-180	29.35	N.A.	2.10
110-180	3.19	N.A.	0.20
0-180	1409.9	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	51.24
10-20	145.02
20-30	211.14
30-40	244.33
40-50	239.11
50-60	199.31
60-70	148.23
70-80	93.95
80-90	48.21
90-100	18.88
100-110	7.28
110-120	2.70
120-130	0.49
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

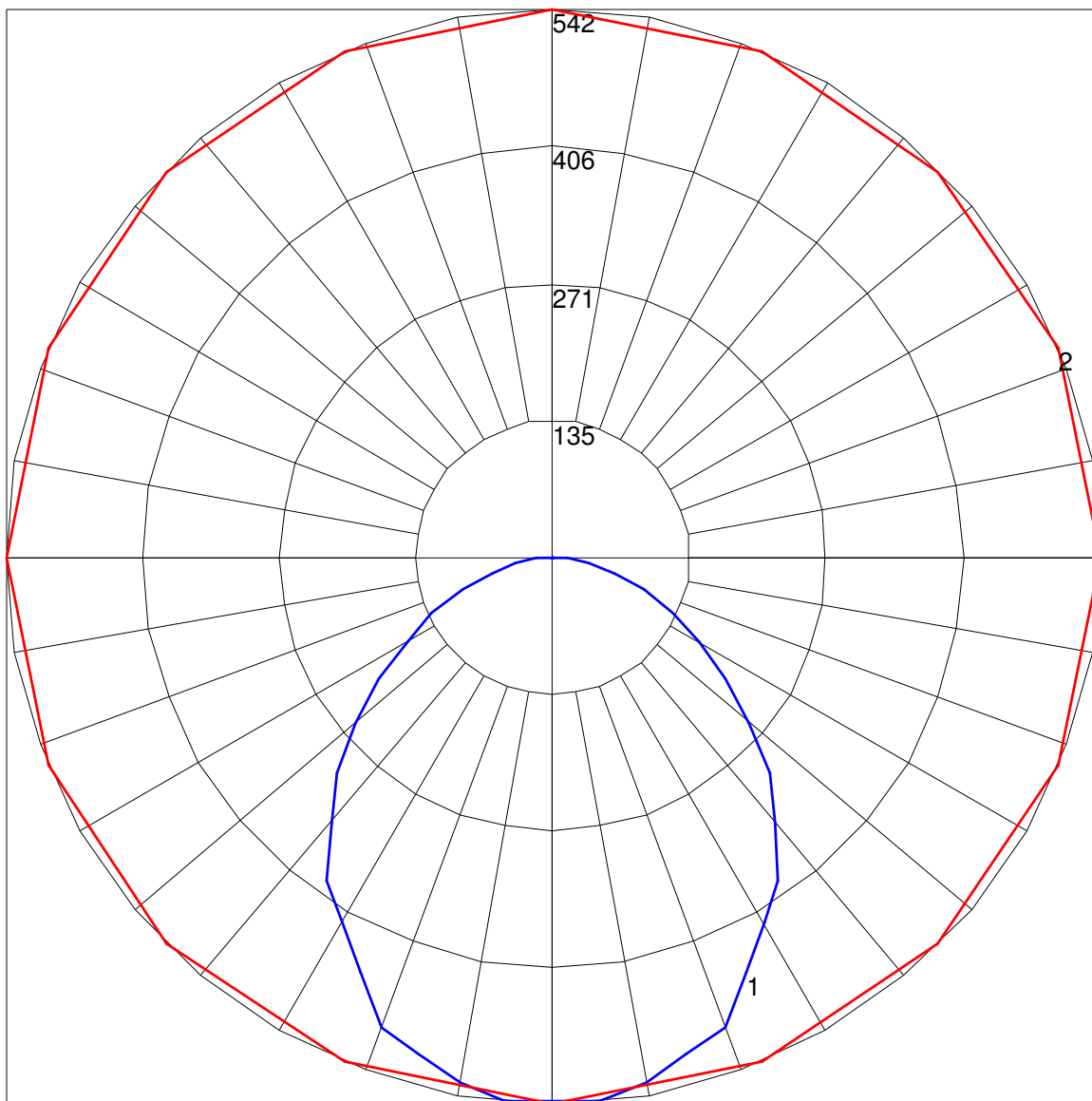
X=2H	Y=2H	11.1	12.6	11.5	13.0	13.4	12.2	13.8	12.6	14.2	14.5
	3H	12.4	13.9	12.8	14.2	14.6	14.3	15.7	14.7	16.1	16.5
	4H	12.8	14.2	13.3	14.6	15.0	15.2	16.5	15.6	16.9	17.3
	6H	13.1	14.4	13.5	14.8	15.2	16.1	17.3	16.5	17.7	18.1
	8H	13.2	14.4	13.6	14.8	15.2	16.5	17.7	17.0	18.1	18.6
	12H	13.2	14.3	13.7	14.8	15.2	16.9	18.1	17.4	18.5	19.0

UGR Viewed Endwise

4H	2H	11.7	13.1	12.2	13.5	13.9	12.7	14.0	13.1	14.4	14.8
	3H	13.3	14.4	13.8	14.9	15.3	14.9	16.1	15.4	16.5	16.9
	4H	13.8	14.9	14.3	15.3	15.8	16.0	17.0	16.4	17.5	17.9
	6H	14.2	15.1	14.7	15.6	16.1	17.1	17.9	17.5	18.4	18.9
	8H	14.3	15.1	14.8	15.6	16.1	17.6	18.4	18.1	18.9	19.4
	12H	14.4	15.1	14.9	15.6	16.2	18.1	18.9	18.7	19.4	19.9
8H	4H	14.3	15.1	14.8	15.6	16.1	16.2	17.0	16.7	17.5	18.0
	6H	14.8	15.5	15.3	16.0	16.5	17.4	18.1	17.9	18.6	19.2
	8H	14.9	15.6	15.5	16.1	16.7	18.0	18.7	18.6	19.2	19.8
	12H	15.1	15.6	15.6	16.2	16.8	18.8	19.3	19.3	19.9	20.5
12H	4H	14.4	15.1	14.9	15.7	16.2	16.2	16.9	16.7	17.5	18.0
	6H	14.9	15.6	15.5	16.1	16.7	17.4	18.1	18.0	18.6	19.2
	8H	15.2	15.8	15.7	16.3	16.9	18.1	18.7	18.7	19.2	19.8

Maximum UGR = 20.5

POLAR GRAPH



Maximum Candela = 541.91 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.)