



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 39-4-L52-835-A-(L38)-EM10W-DIM-UNV_EMER MODE ONLY.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] 02-22-2024
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO 64836
 [LUMINAIRE] 4' SURFACE MOUNT LED LUMINAIRE
 [MORE] WITH FROSTED ACRYLIC RIBBED LENS
 [LUMCAT] 39-4-L52-835-A-(L38)-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	1300
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	130
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	1289	1166	1152
55	1075	958	963
65	890	784	837
75	649	622	722
85	382	518	673

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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	496.874	496.874	496.874	496.874	496.874
5	499.633	499.383	499.132	499.132	499.383
10	488.597	488.347	488.347	488.597	489.099
15	471.291	471.792	472.545	473.047	473.548
20	456.994	457.245	458.750	459.001	459.001
25	418.619	419.622	420.876	421.628	421.628
30	386.764	388.019	389.774	390.778	391.028
35	359.927	361.933	364.692	365.946	366.699
40	315.782	318.291	322.053	324.310	325.314
45	280.668	284.179	289.195	292.707	293.961
50	234.517	238.028	244.800	250.068	252.074
55	193.382	197.646	205.923	212.194	214.953
60	154.254	158.769	167.548	176.828	180.590
65	121.397	126.162	137.449	150.241	154.254
70	88.289	94.058	108.856	122.651	128.169
75	57.689	64.712	81.015	95.813	101.080
80	33.861	42.890	60.698	75.748	81.015
85	14.798	24.580	42.138	56.435	61.451
90	0.000	10.785	25.082	36.620	41.134
95	0.000	4.515	16.052	26.336	30.349
100	0.000	0.000	9.782	17.808	20.567
105	0.000	0.000	6.271	11.789	14.297
110	0.000	0.000	0.000	8.026	9.782
115	0.000	0.000	0.000	6.020	7.274
120	0.000	0.000	0.000	5.016	5.518
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-L52-835-A-(L38)-EM10W-DIM-UNV_EMER MODE ONLY.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	180.95	N.A.	13.90
0-30	375.62	N.A.	28.90
0-40	600.89	N.A.	46.20
0-60	1005.11	N.A.	77.30
0-80	1228.4	N.A.	94.50
0-90	1272.85	N.A.	97.90
10-90	1225.61	N.A.	94.30
20-40	419.93	N.A.	32.30
20-50	640.39	N.A.	49.30
40-70	540.89	N.A.	41.60
60-80	223.29	N.A.	17.20
70-80	86.62	N.A.	6.70
80-90	44.45	N.A.	3.40
90-110	24.12	N.A.	1.90
90-120	26.61	N.A.	2.00
90-130	27.06	N.A.	2.10
90-150	27.06	N.A.	2.10
90-180	27.06	N.A.	2.10
110-180	2.94	N.A.	0.20
0-180	1299.91	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	47.25
10-20	133.71
20-30	194.67
30-40	225.27
40-50	220.46
50-60	183.77
60-70	136.66
70-80	86.62
80-90	44.45
90-100	17.41
100-110	6.71
110-120	2.49
120-130	0.45
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	10.8	12.3	11.2	12.7	13.1	11.9	13.5	12.3	13.9	14.2
	3H	12.1	13.6	12.5	13.9	14.3	14.0	15.4	14.4	15.8	16.2
	4H	12.5	13.9	13.0	14.3	14.7	14.9	16.2	15.3	16.6	17.0
	6H	12.8	14.1	13.2	14.5	14.9	15.8	17.0	16.2	17.4	17.8
	8H	12.9	14.1	13.3	14.5	14.9	16.2	17.4	16.7	17.8	18.3
	12H	12.9	14.0	13.4	14.5	14.9	16.6	17.8	17.1	18.2	18.7

UGR Viewed Endwise

4H	2H	11.4	12.8	11.9	13.2	13.6	12.4	13.7	12.8	14.1	14.5
	3H	13.0	14.1	13.5	14.6	15.0	14.6	15.8	15.1	16.2	16.6
	4H	13.5	14.6	14.0	15.0	15.5	15.7	16.7	16.1	17.2	17.6
	6H	13.9	14.8	14.4	15.3	15.8	16.8	17.6	17.2	18.1	18.6
	8H	14.0	14.8	14.5	15.3	15.8	17.3	18.1	17.8	18.6	19.1
	12H	14.1	14.8	14.6	15.3	15.9	17.8	18.6	18.4	19.1	19.6

8H	4H	14.0	14.8	14.5	15.3	15.8	15.9	16.7	16.4	17.2	17.7
	6H	14.5	15.2	15.0	15.7	16.2	17.1	17.8	17.6	18.3	18.9
	8H	14.6	15.3	15.2	15.8	16.4	17.7	18.4	18.3	18.9	19.5
	12H	14.8	15.3	15.3	15.9	16.5	18.5	19.0	19.0	19.6	20.2

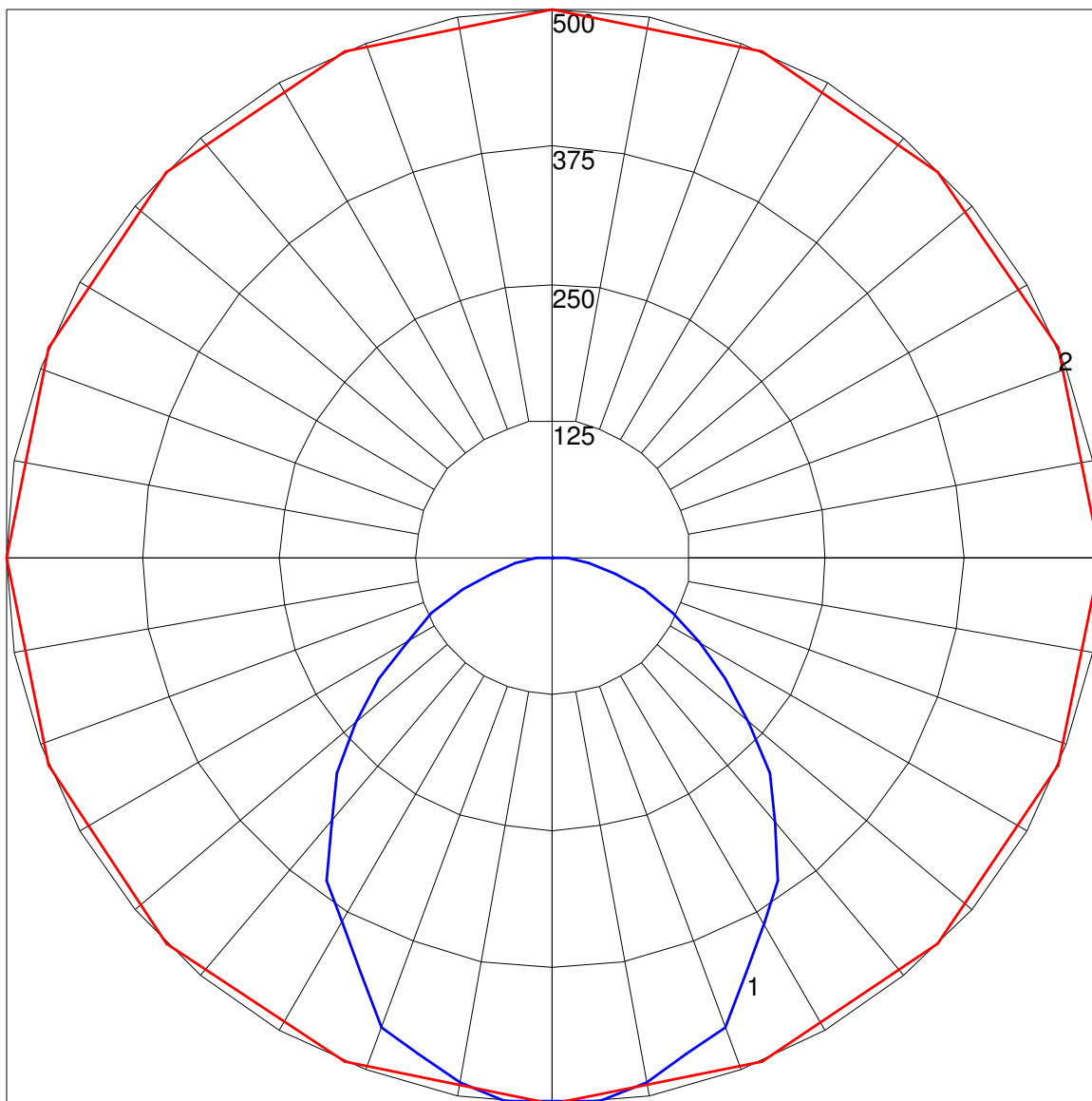
12H	4H	14.1	14.8	14.6	15.4	15.9	15.9	16.6	16.4	17.2	17.7
	6H	14.6	15.3	15.2	15.8	16.4	17.1	17.8	17.7	18.3	18.9
	8H	14.9	15.5	15.4	16.0	16.6	17.8	18.4	18.4	18.9	19.5

Maximum UGR = 20.2

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POLAR GRAPH



Maximum Candela = 499.633 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.)