

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 39-4-L84-835-A-(L60)-EM10WLP-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

[ISSUEDATE] 01-16-2026

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 4' SURFACE MOUNT LED LUMINAIRE

[MORE] WITH FROSTED ACRYLIC RIBBED LENS

[LUMCAT] 39-4-L84-835-A-(L60)-EM10WLP-DIM-UNV (EMER MODE)

[LAMPCAT] HLM 80 CRI, 3500K CCT

[_SEARCH_SOURCE] 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	1340
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	134
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	1328	1202	1187
55	1108	988	993
65	917	808	862
75	669	641	744
85	394	534	693

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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	512.163	512.163	512.163	512.163	512.163
5	515.007	514.748	514.490	514.490	514.748
10	503.631	503.373	503.373	503.631	504.148
15	485.792	486.309	487.085	487.602	488.119
20	471.055	471.314	472.865	473.124	473.124
25	431.499	432.533	433.826	434.602	434.602
30	398.665	399.958	401.767	402.801	403.060
35	371.001	373.070	375.914	377.206	377.982
40	325.499	328.084	331.962	334.289	335.323
45	289.303	292.923	298.094	301.713	303.006
50	241.733	245.352	252.333	257.762	259.830
55	199.332	203.728	212.259	218.723	221.567
60	159.001	163.654	172.703	182.269	186.147
65	125.132	130.044	141.679	154.864	159.001
70	91.005	96.952	112.205	126.425	132.113
75	59.464	66.703	83.508	98.761	104.191
80	34.903	44.210	62.566	78.078	83.508
85	15.254	25.337	43.434	58.171	63.342
90	0.000	11.117	25.854	37.746	42.400
95	0.000	4.654	16.546	27.146	31.283
100	0.000	0.000	10.083	18.356	21.200
105	0.000	0.000	6.463	12.151	14.737
110	0.000	0.000	0.000	8.273	10.083
115	0.000	0.000	0.000	6.205	7.498
120	0.000	0.000	0.000	5.171	5.688
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-L84-835-A-(L60)-EM10WLP-DIM-UNV_(EMER MODE ONLY).IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	186.52	N.A.	13.90
0-30	387.18	N.A.	28.90
0-40	619.38	N.A.	46.20
0-60	1036.04	N.A.	77.30
0-80	1266.2	N.A.	94.50
0-90	1312.02	N.A.	97.90
10-90	1263.32	N.A.	94.30
20-40	432.86	N.A.	32.30
20-50	660.10	N.A.	49.30
40-70	557.53	N.A.	41.60
60-80	230.16	N.A.	17.20
70-80	89.29	N.A.	6.70
80-90	45.82	N.A.	3.40
90-110	24.86	N.A.	1.90
90-120	27.43	N.A.	2.00
90-130	27.89	N.A.	2.10
90-150	27.89	N.A.	2.10
90-180	27.89	N.A.	2.10
110-180	3.03	N.A.	0.20
0-180	1339.91	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	48.70
10-20	137.82
20-30	200.66
30-40	232.20
40-50	227.24
50-60	189.42
60-70	140.87
70-80	89.29
80-90	45.82
90-100	17.94
100-110	6.92
110-120	2.57
120-130	0.46
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	10.9	12.4	11.3	12.8	13.2	12.0	13.6	12.4	14.0	14.3
	3H	12.2	13.7	12.6	14.0	14.4	14.1	15.5	14.5	15.9	16.3
	4H	12.6	14.0	13.1	14.4	14.8	15.0	16.3	15.4	16.7	17.1
	6H	12.9	14.2	13.3	14.6	15.0	15.9	17.1	16.3	17.5	17.9
	8H	13.0	14.2	13.4	14.6	15.0	16.3	17.5	16.8	17.9	18.4
	12H	13.0	14.1	13.5	14.6	15.0	16.7	17.9	17.2	18.3	18.8

UGR Viewed Endwise

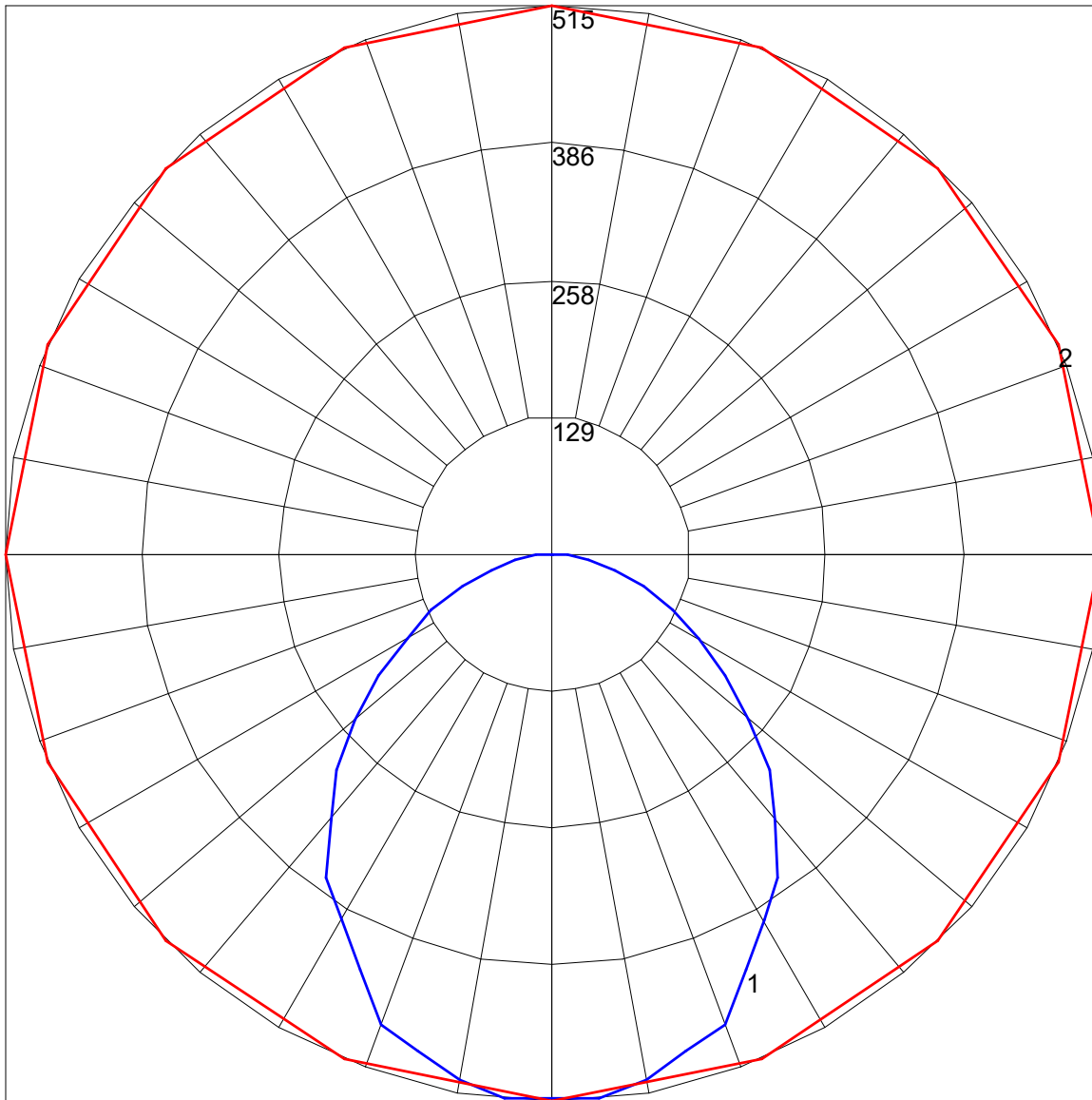
4H	2H	11.5	12.9	12.0	13.3	13.7	12.5	13.8	12.9	14.2	14.6
	3H	13.1	14.2	13.6	14.7	15.1	14.7	15.9	15.2	16.3	16.7
	4H	13.6	14.7	14.1	15.1	15.6	15.8	16.8	16.2	17.3	17.7
	6H	14.0	14.9	14.5	15.4	15.9	16.9	17.7	17.3	18.2	18.7
	8H	14.1	14.9	14.6	15.4	15.9	17.4	18.2	17.9	18.7	19.2
	12H	14.2	14.9	14.7	15.4	16.0	17.9	18.7	18.5	19.2	19.7
8H	4H	14.1	14.9	14.6	15.4	15.9	16.0	16.8	16.5	17.3	17.8
	6H	14.6	15.3	15.1	15.8	16.3	17.2	17.9	17.7	18.4	19.0
	8H	14.7	15.4	15.3	15.9	16.5	17.8	18.5	18.4	19.0	19.6
	12H	14.9	15.4	15.4	16.0	16.6	18.6	19.1	19.1	19.7	20.3
12H	4H	14.2	14.9	14.7	15.5	16.0	16.0	16.7	16.5	17.3	17.8
	6H	14.7	15.4	15.3	15.9	16.5	17.2	17.9	17.8	18.4	19.0
	8H	15.0	15.6	15.5	16.1	16.7	17.9	18.5	18.5	19.0	19.6

Maximum UGR = 20.3

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POLAR GRAPH



Maximum Candela = 515.007 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.)