



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 39-4-L30-840-A-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

[ISSUE DATE] 08-12-2025

[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-L30-840-A-EM10WLP-DIM-UNV

[LAMPCAT] HLM 80 CRI, 4000K 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	1370
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	137
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	1358	1229	1214
55	1133	1010	1015
65	937	827	882
75	684	655	761
85	403	546	709

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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	523.629	523.629	523.629	523.629	523.629
5	526.537	526.272	526.008	526.008	526.272
10	514.906	514.642	514.642	514.906	515.435
15	496.668	497.197	497.990	498.518	499.047
20	481.601	481.866	483.452	483.716	483.716
25	441.160	442.217	443.539	444.332	444.332
30	407.590	408.912	410.762	411.819	412.084
35	379.307	381.422	384.330	385.651	386.444
40	332.786	335.429	339.394	341.773	342.830
45	295.780	299.481	304.768	308.468	309.790
50	247.145	250.845	257.982	263.533	265.647
55	203.795	208.289	217.011	223.620	226.527
60	162.560	167.318	176.570	186.350	190.315
65	127.934	132.956	144.850	158.331	162.560
70	93.043	99.122	114.717	129.255	135.070
75	60.795	68.196	85.377	100.972	106.523
80	35.684	45.200	63.967	79.826	85.377
85	15.595	25.904	44.407	59.473	64.760
90	0.000	11.366	26.433	38.592	43.349
95	0.000	4.758	16.917	27.754	31.983
100	0.000	0.000	10.309	18.767	21.675
105	0.000	0.000	6.608	12.423	15.067
110	0.000	0.000	0.000	8.458	10.309
115	0.000	0.000	0.000	6.344	7.665
120	0.000	0.000	0.000	5.287	5.815
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-L30-840-A-EM10WLP-DIM-UNV_EMER MODE ONLY.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	190.70	N.A.	13.90
0-30	395.85	N.A.	28.90
0-40	633.24	N.A.	46.20
0-60	1059.24	N.A.	77.30
0-80	1294.55	N.A.	94.50
0-90	1341.39	N.A.	97.90
10-90	1291.6	N.A.	94.30
20-40	442.55	N.A.	32.30
20-50	674.88	N.A.	49.30
40-70	570.01	N.A.	41.60
60-80	235.31	N.A.	17.20
70-80	91.29	N.A.	6.70
80-90	46.84	N.A.	3.40
90-110	25.42	N.A.	1.90
90-120	28.04	N.A.	2.00
90-130	28.51	N.A.	2.10
90-150	28.51	N.A.	2.10
90-180	28.51	N.A.	2.10
110-180	3.10	N.A.	0.20
0-180	1369.91	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	49.79
10-20	140.91
20-30	205.15
30-40	237.40
40-50	232.33
50-60	193.66
60-70	144.02
70-80	91.29
80-90	46.84
90-100	18.35
100-110	7.07
110-120	2.62
120-130	0.47
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	11.0	12.5	11.4	12.9	13.3	UGR Viewed Endwise			
	3H	12.3	13.8	12.7	14.1	14.5	12.1	13.7	12.5	14.1
	4H	12.7	14.1	13.2	14.5	14.9	14.2	15.6	14.6	16.0
	6H	13.0	14.3	13.4	14.7	15.1	15.1	16.4	15.5	16.8
	8H	13.1	14.3	13.5	14.7	15.1	16.0	17.2	16.4	17.6
	12H	13.1	14.2	13.6	14.7	15.1	16.4	17.6	16.9	18.0

4H	2H	11.6	13.0	12.1	13.4	13.8	16.8	18.0	17.3	18.4
	3H	13.2	14.3	13.7	14.8	15.2	12.6	13.9	13.0	14.3
	4H	13.7	14.8	14.2	15.2	15.7	14.8	16.0	15.3	16.4
	6H	14.1	15.0	14.6	15.5	16.0	15.9	16.9	16.3	17.4
	8H	14.2	15.0	14.7	15.5	16.0	17.0	17.8	17.4	18.3
	12H	14.3	15.0	14.8	15.5	16.1	17.5	18.3	18.0	18.8

8H	4H	14.2	15.0	14.7	15.5	16.0	18.0	18.8	18.6	19.3
	6H	14.7	15.4	15.2	15.9	16.4	16.1	16.9	16.6	17.4
	8H	14.8	15.5	15.4	16.0	16.6	17.3	18.0	17.8	18.5
	12H	15.0	15.5	15.5	16.1	16.7	17.9	18.6	18.5	19.1

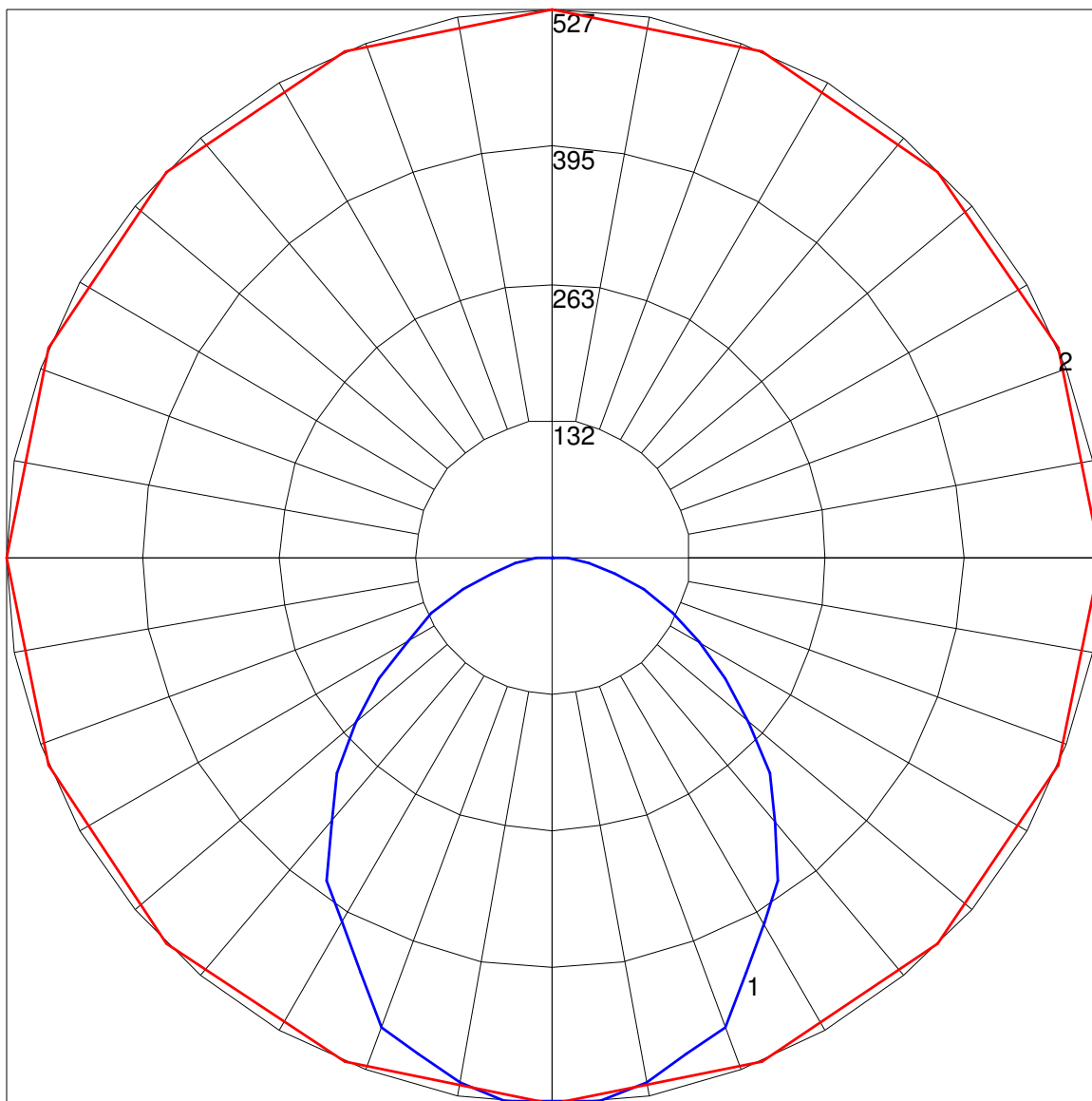
12H	4H	14.3	15.0	14.8	15.6	16.1	18.7	19.2	19.2	19.8
	6H	14.8	15.5	15.4	16.0	16.6	16.1	16.8	16.6	17.4
	8H	15.1	15.7	15.6	16.2	16.8	17.3	18.0	17.9	18.5

Maximum UGR = 20.4

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POLAR GRAPH



Maximum Candela = 526.537 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.)