



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 39-4-L30-840-A-(L15)-DIM-UNV\_.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] 25 MAY 2022  
 [MANUFAC] WILLIAMS INDOOR  
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO  
 [LUMINAIRE] 4' LINEAR LED LUMINAIRE  
 [MORE] WHITE REFLECTOR w/FROSTED ACRYLIC RIBBED LENS  
 [LUMCAT] 39-4-L30-840-A-(L15)-DIM-UNV  
 [LAMPCAT] HLM 80 CRI 4000K CCT  
 [ \_SEARCH\_SOURCETYPE] LED  
 [ \_SEARCH\_APPLICATION] Indoor, Architectural, Commercial, Direct, Linear  
 [ \_SEARCH\_MOUNTING] Pendant, Surface

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1547
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	137
Total Luminaire Watts	11.3
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	1534	1387	1371
55	1279	1140	1146
65	1059	933	995
75	772	740	859
85	455	617	800

IES INDOOR REPORT  
 PHOTOMETRIC FILENAME : 39-4-L30-840-A-(L15)-DIM-UNV\_.IES

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	591.281	591.281	591.281	591.281	591.281
5	594.564	594.265	593.967	593.967	594.265
10	581.431	581.132	581.132	581.431	582.028
15	560.836	561.433	562.328	562.925	563.522
20	543.823	544.121	545.912	546.211	546.211
25	498.156	499.350	500.842	501.738	501.738
30	460.250	461.742	463.831	465.025	465.324
35	428.313	430.701	433.984	435.476	436.372
40	375.781	378.766	383.243	385.929	387.123
45	333.994	338.173	344.143	348.321	349.814
50	279.075	283.254	291.312	297.580	299.968
55	230.125	235.199	245.049	252.511	255.794
60	183.563	188.935	199.382	210.425	214.903
65	144.462	150.133	163.565	178.787	183.563
70	105.063	111.928	129.538	145.955	152.521
75	68.649	77.007	96.408	114.018	120.286
80	40.294	51.039	72.231	90.140	96.408
85	17.610	29.251	50.144	67.157	73.127
90	0.000	12.834	29.848	43.577	48.950
95	0.000	5.373	19.102	31.340	36.116
100	0.000	0.000	11.641	21.192	24.475
105	0.000	0.000	7.462	14.028	17.013
110	0.000	0.000	0.000	9.551	11.641
115	0.000	0.000	0.000	7.163	8.656
120	0.000	0.000	0.000	5.970	6.566
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-(L15)-DIM-UNV\_.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	215.34	N.A.	13.90
0-30	446.99	N.A.	28.90
0-40	715.06	N.A.	46.20
0-60	1196.09	N.A.	77.30
0-80	1461.8	N.A.	94.50
0-90	1514.69	N.A.	97.90
10-90	1458.47	N.A.	94.30
20-40	499.72	N.A.	32.30
20-50	762.07	N.A.	49.30
40-70	643.66	N.A.	41.60
60-80	265.71	N.A.	17.20
70-80	103.08	N.A.	6.70
80-90	52.89	N.A.	3.40
90-110	28.70	N.A.	1.90
90-120	31.66	N.A.	2.00
90-130	32.20	N.A.	2.10
90-150	32.20	N.A.	2.10
90-180	32.20	N.A.	2.10
110-180	3.50	N.A.	0.20
0-180	1546.89	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	56.22
10-20	159.11
20-30	231.66
30-40	268.07
40-50	262.35
50-60	218.68
60-70	162.63
70-80	103.08
80-90	52.89
90-100	20.72
100-110	7.99
110-120	2.96
120-130	0.53
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 39-4-L30-840-A-(L15)-DIM-UNV\_.IES**

**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

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 39-4-L30-840-A-(L15)-DIM-UNV\_.IES**

**UGR TABLE - CORRECTED**

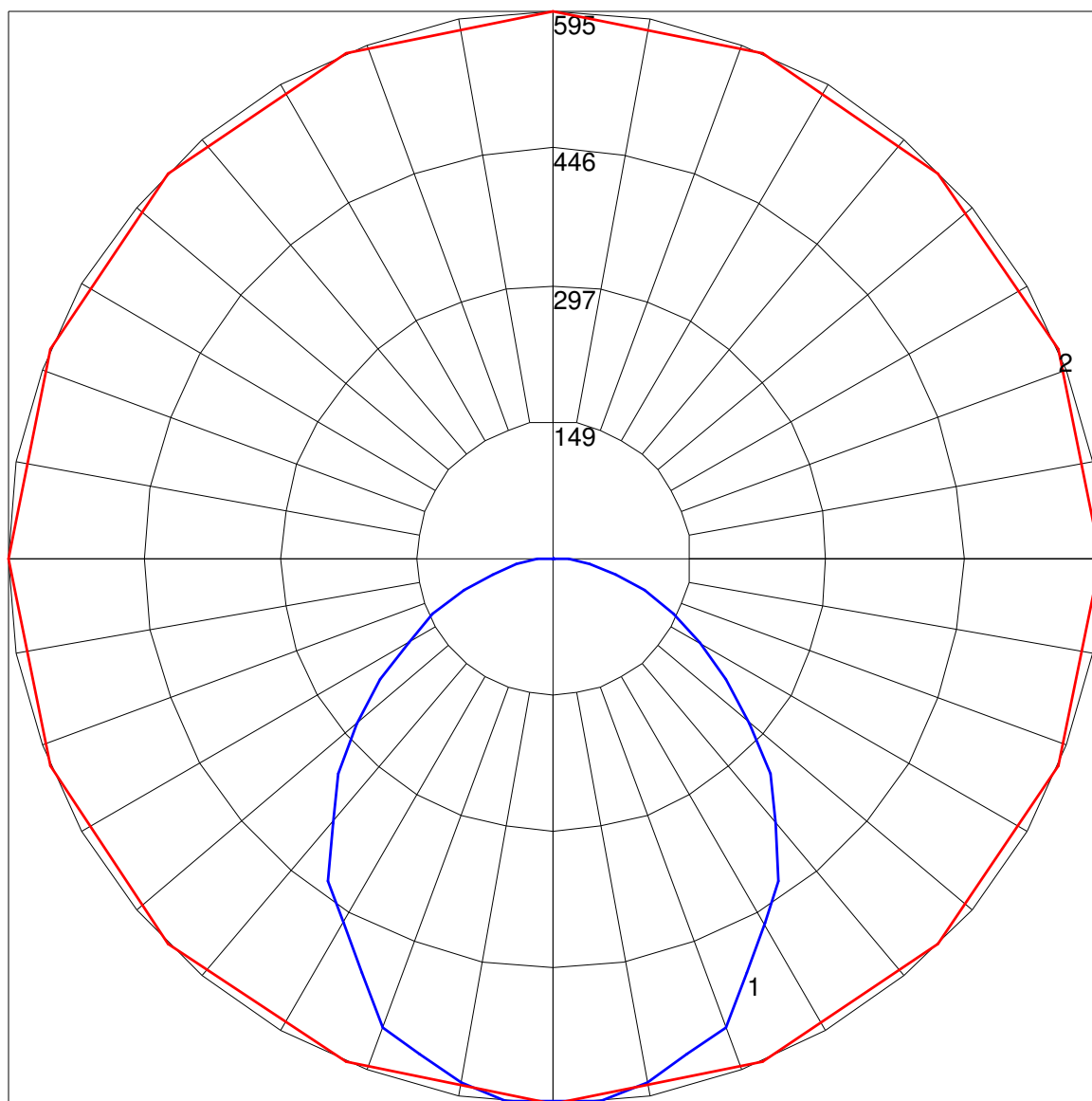
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	11.4	12.9	11.8	13.3	13.7	12.5	14.1	12.9	14.5	14.8
	3H	12.7	14.2	13.1	14.5	14.9	14.6	16.0	15.0	16.4	16.8
	4H	13.1	14.5	13.6	14.9	15.3	15.5	16.8	15.9	17.2	17.6
	6H	13.4	14.7	13.8	15.1	15.5	16.4	17.6	16.8	18.0	18.4
	8H	13.5	14.7	13.9	15.1	15.5	16.8	18.0	17.3	18.4	18.9
	12H	13.5	14.6	14.0	15.1	15.5	17.2	18.4	17.7	18.8	19.3
4H	2H	12.0	13.4	12.5	13.8	14.2	13.0	14.3	13.4	14.7	15.1
	3H	13.6	14.7	14.1	15.2	15.6	15.2	16.4	15.7	16.8	17.2
	4H	14.1	15.2	14.6	15.6	16.1	16.3	17.3	16.7	17.8	18.2
	6H	14.5	15.4	15.0	15.9	16.4	17.4	18.2	17.8	18.7	19.2
	8H	14.6	15.4	15.1	15.9	16.4	17.9	18.7	18.4	19.2	19.7
	12H	14.7	15.4	15.2	15.9	16.5	18.4	19.2	19.0	19.7	20.2
8H	4H	14.6	15.4	15.1	15.9	16.4	16.5	17.3	17.0	17.8	18.3
	6H	15.1	15.8	15.6	16.3	16.8	17.7	18.4	18.2	18.9	19.5
	8H	15.2	15.9	15.8	16.4	17.0	18.3	19.0	18.9	19.5	20.1
	12H	15.4	15.9	15.9	16.5	17.1	19.1	19.6	19.6	20.2	20.8
12H	4H	14.7	15.4	15.2	16.0	16.5	16.5	17.2	17.0	17.8	18.3
	6H	15.2	15.9	15.8	16.4	17.0	17.7	18.4	18.3	18.9	19.5
	8H	15.5	16.1	16.0	16.6	17.2	18.4	19.0	19.0	19.5	20.1

Maximum UGR = 20.8

POLAR GRAPH



Maximum Candela = 594.564 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.)