



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : SL-4-L10-840-RD-DIM-UNV\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] GEN FROM BALLABS TEST NO. 21002.0  
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC  
 [ISSUEDATE] 2023-10-03  
 [MANUFAC] WILLIAMS INDOOR  
 [MORE] H.E. WILLIAMS, INC - CARTHAGE, MO  
 [LUMINAIRE] 48 INCH LED SLIMLINE ARCHITECTURAL LUMINAIRE  
 [MORE] 1.5"ALUM CHANNEL w/1"WIDE WHITE RADIAL ACRYLIC LENS  
 [MORE] 0-10V REMOTE DRIVER ENCLOSURE  
 [LUMCAT] SL-4-L10-840-RD-DIM-UNV  
 [LAMPCAT] 22 INCH LED ARRAY

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4198
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	111
Total Luminaire Watts	37.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.13 ft
Luminous Height	0.05 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	25951	20916	19895
55	24494	18713	17946
65	21801	16086	15970
75	18256	13240	14214
85	9884	10978	12799

IES INDOOR REPORT  
 PHOTOMETRIC FILENAME : SL-4-L10-840-RD-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	1321.885	1321.885	1321.885	1321.885	1321.885
5	1326.212	1319.722	1311.068	1308.904	1311.068
10	1306.741	1300.250	1291.596	1291.596	1295.923
15	1278.615	1272.125	1263.471	1265.635	1265.635
20	1235.346	1228.855	1218.038	1226.692	1228.855
25	1181.259	1174.768	1172.605	1179.095	1183.422
30	1114.191	1114.191	1114.191	1122.845	1120.682
35	1042.796	1042.796	1042.796	1051.450	1057.941
40	956.257	958.421	960.584	975.729	984.382
45	863.228	869.718	876.209	893.516	900.007
50	761.544	768.035	783.179	809.141	822.122
55	664.188	666.351	694.476	716.111	735.582
60	551.687	562.504	601.447	642.553	655.534
65	439.186	456.494	501.927	547.360	566.831
70	335.339	352.647	408.897	465.148	482.456
75	229.329	259.617	322.358	385.099	411.061
80	134.136	166.588	250.963	313.704	341.830
85	45.433	106.010	183.896	246.636	274.762
90	0.000	58.414	136.299	192.550	214.184
95	0.000	30.289	93.030	149.280	168.751
100	0.000	15.144	64.904	110.337	129.809
105	0.000	8.654	45.433	80.049	97.357
110	0.000	6.490	30.289	58.414	69.231
115	0.000	4.327	19.471	41.106	51.923
120	0.000	0.000	10.817	25.962	32.452
125	0.000	0.000	8.654	17.308	21.635
130	0.000	0.000	0.000	10.817	12.981
135	0.000	0.000	0.000	0.000	8.654
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 : SL-4-L10-840-RD-DIM-UNV\_.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	482.64	N.A.	11.50
0-30	1025.09	N.A.	24.40
0-40	1679.63	N.A.	40.00
0-60	2980.67	N.A.	71.00
0-80	3821.87	N.A.	91.00
0-90	4016.56	N.A.	95.70
10-90	3891.64	N.A.	92.70
20-40	1196.99	N.A.	28.50
20-50	1876.00	N.A.	44.70
40-70	1800.29	N.A.	42.90
60-80	841.20	N.A.	20.00
70-80	341.94	N.A.	8.10
80-90	194.69	N.A.	4.60
90-110	149.60	N.A.	3.60
90-120	172.31	N.A.	4.10
90-130	180.44	N.A.	4.30
90-150	181.74	N.A.	4.30
90-180	181.74	N.A.	4.30
110-180	32.13	N.A.	0.80
0-180	4198.29	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	124.91
10-20	357.73
20-30	542.45
30-40	654.54
40-50	679.01
50-60	622.03
60-70	499.26
70-80	341.94
80-90	194.69
90-100	99.87
100-110	49.73
110-120	22.71
120-130	8.13
130-140	1.29
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : SL-4-L10-840-RD-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	118	118	118	118	115	115	115	115	109	109	109	103	103	103	98	98	98	96
1	106	101	96	92	103	98	94	90	93	90	86	89	86	83	84	82	80	77
2	96	87	80	74	93	85	78	73	81	75	70	77	72	68	73	69	66	63
3	88	76	68	61	85	75	67	60	71	64	59	68	62	57	64	60	55	53
4	80	68	58	51	77	66	57	51	63	55	50	60	54	49	57	52	47	45
5	74	60	51	44	71	59	50	44	56	49	43	54	47	42	51	46	41	39
6	68	54	45	38	66	53	44	38	51	43	37	49	42	37	47	41	36	34
7	63	49	40	34	61	48	40	34	46	39	33	44	38	32	43	37	32	30
8	59	45	36	30	57	44	36	30	42	35	29	41	34	29	39	33	29	27
9	55	41	33	27	53	40	32	27	39	32	27	37	31	26	36	30	26	24
10	51	38	30	25	50	37	30	24	36	29	24	35	28	24	33	28	23	22

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : SL-4-L10-840-RD-DIM-UNV\_.IES**

**UGR TABLE - CORRECTED**

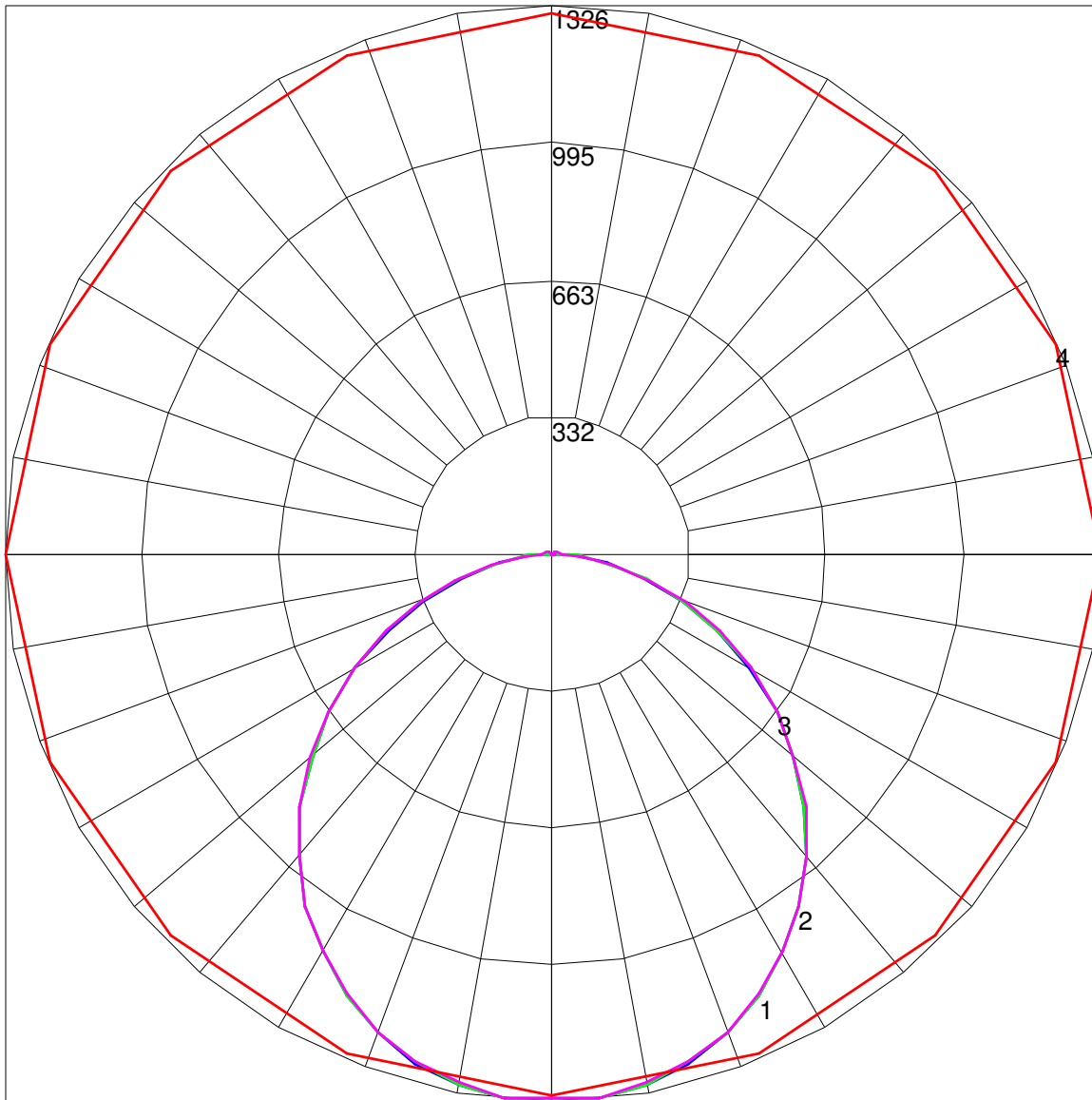
Reflectances

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	21.1	22.7	21.5	23.1	23.5	22.8	24.4	23.2	24.8	25.2
	3H	22.6	24.0	23.0	24.4	24.9	25.1	26.5	25.5	27.0	27.4
	4H	23.0	24.4	23.5	24.8	25.3	26.2	27.6	26.7	28.0	28.5
	6H	23.3	24.6	23.8	25.1	25.5	27.4	28.6	27.8	29.1	29.6
	8H	23.4	24.6	23.9	25.1	25.6	27.9	29.2	28.4	29.6	30.1
	12H	23.4	24.6	23.9	25.0	25.6	28.6	29.8	29.1	30.2	30.8
4H	2H	21.9	23.3	22.3	23.7	24.1	23.2	24.6	23.7	25.0	25.5
	3H	23.6	24.7	24.0	25.2	25.7	25.7	26.9	26.2	27.4	27.9
	4H	24.1	25.2	24.6	25.7	26.2	27.0	28.1	27.5	28.5	29.1
	6H	24.5	25.5	25.1	26.0	26.5	28.3	29.3	28.9	29.8	30.3
	8H	24.6	25.5	25.2	26.0	26.6	29.0	29.9	29.5	30.4	31.0
	12H	24.7	25.5	25.2	26.0	26.6	29.8	30.6	30.3	31.1	31.7
8H	4H	24.7	25.6	25.2	26.1	26.6	27.2	28.1	27.7	28.6	29.1
	6H	25.2	26.0	25.8	26.5	27.1	28.7	29.4	29.2	30.0	30.5
	8H	25.4	26.1	25.9	26.6	27.2	29.5	30.2	30.0	30.7	31.3
	12H	25.5	26.1	26.1	26.6	27.3	30.4	31.0	31.0	31.6	32.2
12H	4H	24.8	25.6	25.4	26.2	26.7	27.2	28.0	27.7	28.5	29.1
	6H	25.4	26.1	26.0	26.7	27.3	28.7	29.4	29.3	29.9	30.5
	8H	25.7	26.3	26.3	26.8	27.5	29.6	30.2	30.1	30.7	31.4

Maximum UGR = 32.2

POLAR GRAPH



Maximum Candela = 1326.212 Located At Horizontal Angle = 0, Vertical Angle = 5

# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)

# 2 - Vertical Plane Through Horizontal Angles (5 - 185)

# 3 - Vertical Plane Through Horizontal Angles (10 - 190)

# 4 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)