



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : SL-4-L5-840-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] 1.5x24"ALUM CHANNEL w/1"WIDE WHITE RADIAL ACRYLIC LENS

[MORE] 0-10V REMOTE DRIVER ENCLOSURE

[LUMCAT] SL-4-L5-840-RD-DIM-UNV

[LAMPCAT] 22 INCH LED ARRAY

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2082
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	120
Total Luminaire Watts	17.3
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	12871	10373	9867
55	12148	9281	8900
65	10813	7978	7920
75	9054	6566	7049
85	4902	5444	6348

IES INDOOR REPORT  
 PHOTOMETRIC FILENAME : SL-4-L5-840-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	655.593	655.593	655.593	655.593	655.593
5	657.739	654.520	650.228	649.155	650.228
10	648.082	644.863	640.571	640.571	642.717
15	634.133	630.914	626.622	627.695	627.695
20	612.673	609.454	604.089	608.381	609.454
25	585.849	582.630	581.557	584.776	586.922
30	552.586	552.586	552.586	556.878	555.805
35	517.178	517.178	517.178	521.470	524.689
40	474.258	475.331	476.404	483.915	488.207
45	428.120	431.339	434.558	443.142	446.361
50	377.690	380.909	388.420	401.296	407.734
55	329.406	330.479	344.428	355.157	364.814
60	273.611	278.976	298.289	318.676	325.114
65	217.816	226.399	248.932	271.465	281.122
70	166.312	174.896	202.794	230.691	239.275
75	113.736	128.758	159.874	190.991	203.867
80	66.525	82.620	124.466	155.583	169.531
85	22.533	52.576	91.204	122.320	136.269
90	0.000	28.971	67.598	95.495	106.225
95	0.000	15.022	46.138	74.036	83.693
100	0.000	7.511	32.189	54.722	64.379
105	0.000	4.292	22.533	39.700	48.284
110	0.000	3.219	15.022	28.971	34.335
115	0.000	2.146	9.657	20.387	25.752
120	0.000	0.000	5.365	12.876	16.095
125	0.000	0.000	4.292	8.584	10.730
130	0.000	0.000	0.000	5.365	6.438
135	0.000	0.000	0.000	0.000	4.292
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-L5-840-RD-DIM-UNV\_.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	239.37	N.A.	11.50
0-30	508.40	N.A.	24.40
0-40	833.02	N.A.	40.00
0-60	1478.27	N.A.	71.00
0-80	1895.47	N.A.	91.00
0-90	1992.02	N.A.	95.70
10-90	1930.07	N.A.	92.70
20-40	593.65	N.A.	28.50
20-50	930.41	N.A.	44.70
40-70	892.86	N.A.	42.90
60-80	417.19	N.A.	20.00
70-80	169.59	N.A.	8.10
80-90	96.56	N.A.	4.60
90-110	74.20	N.A.	3.60
90-120	85.46	N.A.	4.10
90-130	89.49	N.A.	4.30
90-150	90.13	N.A.	4.30
90-180	90.13	N.A.	4.30
110-180	15.94	N.A.	0.80
0-180	2082.16	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	61.95
10-20	177.42
20-30	269.03
30-40	324.62
40-50	336.76
50-60	308.50
60-70	247.61
70-80	169.59
80-90	96.56
90-100	49.53
100-110	24.67
110-120	11.26
120-130	4.03
130-140	0.64
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : SL-4-L5-840-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-L5-840-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

X=2H	Y=2H	18.6	20.2	19.0	20.6	21.0	20.3	21.9	20.7	22.3	22.7
	3H	20.1	21.5	20.5	21.9	22.4	22.6	24.0	23.0	24.5	24.9
	4H	20.5	21.9	21.0	22.3	22.8	23.7	25.1	24.2	25.5	26.0
	6H	20.8	22.1	21.3	22.6	23.0	24.9	26.1	25.3	26.6	27.1
	8H	20.9	22.1	21.4	22.6	23.1	25.4	26.7	25.9	27.1	27.6
	12H	20.9	22.1	21.4	22.5	23.1	26.1	27.3	26.6	27.7	28.3

UGR Viewed Endwise

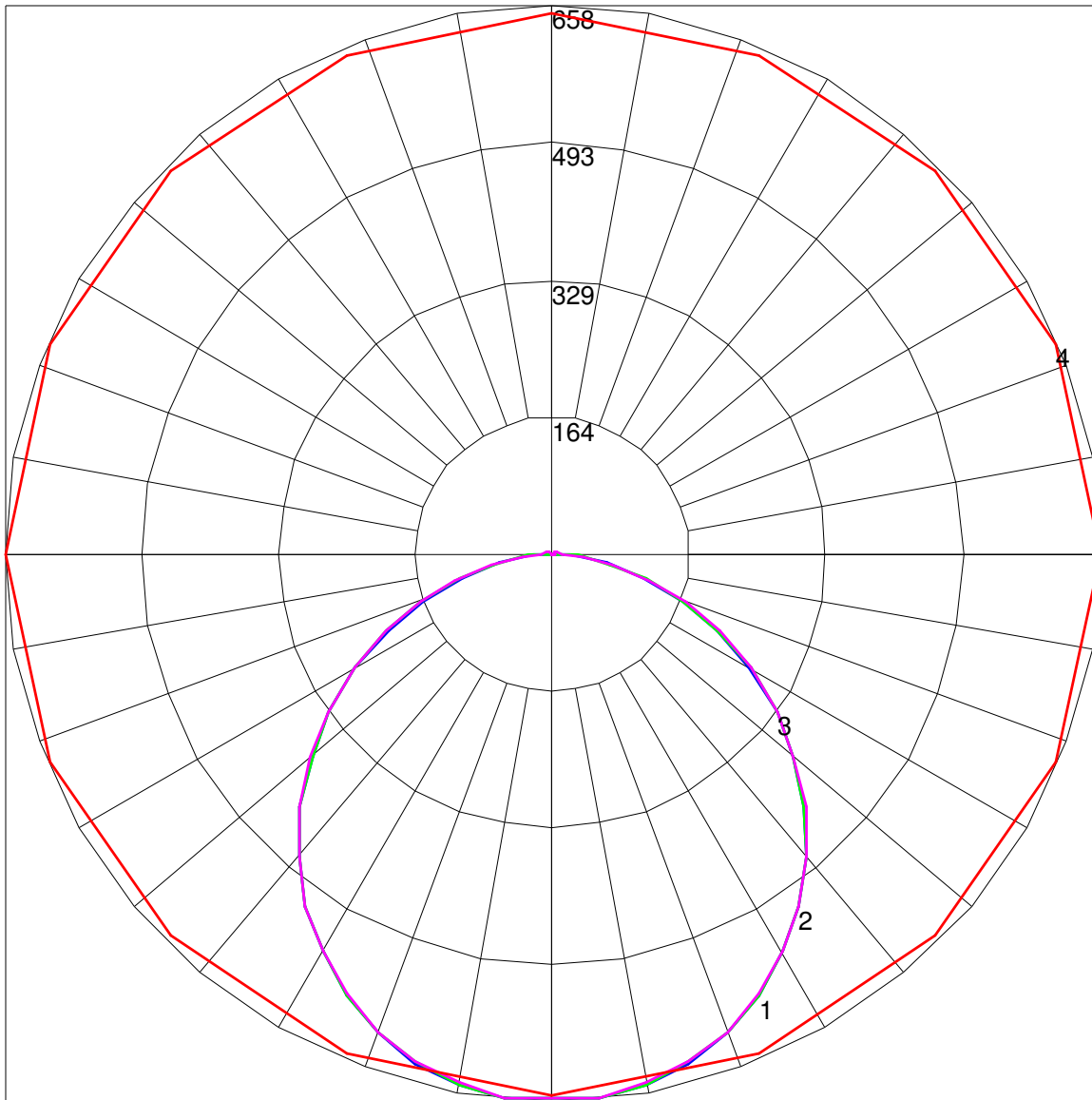
4H	2H	19.4	20.8	19.8	21.2	21.6	20.7	22.1	21.2	22.5	23.0
	3H	21.1	22.2	21.5	22.7	23.2	23.2	24.4	23.7	24.9	25.4
	4H	21.6	22.7	22.1	23.2	23.7	24.5	25.6	25.0	26.0	26.6
	6H	22.0	23.0	22.6	23.5	24.0	25.8	26.8	26.4	27.3	27.8
	8H	22.1	23.0	22.7	23.5	24.1	26.5	27.4	27.0	27.9	28.5
	12H	22.2	23.0	22.7	23.5	24.1	27.3	28.1	27.8	28.6	29.2

8H	4H	22.2	23.1	22.7	23.6	24.1	24.7	25.6	25.2	26.1	26.6
	6H	22.7	23.5	23.3	24.0	24.6	26.2	26.9	26.7	27.5	28.0
	8H	22.9	23.6	23.4	24.1	24.7	27.0	27.7	27.5	28.2	28.8
	12H	23.0	23.6	23.6	24.1	24.8	27.9	28.5	28.5	29.1	29.7

12H	4H	22.3	23.1	22.9	23.7	24.2	24.7	25.5	25.2	26.0	26.6
	6H	22.9	23.6	23.5	24.2	24.8	26.2	26.9	26.8	27.4	28.0
	8H	23.2	23.8	23.8	24.3	25.0	27.1	27.7	27.6	28.2	28.9

Maximum UGR = 29.7

POLAR GRAPH



Maximum Candela = 657.739 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.)