



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : SL-6-L10-850-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] 72 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-6-L10-850-RD-DIM-UNV

[LAMPCAT] 22 INCH LED ARRAY

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6418
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	118
Total Luminaire Watts	54.6
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)	6.00 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	26550	21363	20275
55	25101	19126	18289
65	22402	16455	16275
75	18870	13562	14485
85	10487	11274	13043

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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	2020.726	2020.726	2020.726	2020.726	2020.726
5	2027.341	2017.419	2004.190	2000.883	2004.190
10	1997.575	1987.654	1974.425	1974.425	1981.039
15	1954.581	1944.660	1931.431	1934.738	1934.738
20	1888.436	1878.515	1861.978	1875.207	1878.515
25	1805.755	1795.834	1792.526	1802.448	1809.063
30	1703.231	1703.231	1703.231	1716.460	1713.152
35	1594.092	1594.092	1594.092	1607.321	1617.242
40	1461.802	1465.109	1468.416	1491.567	1504.796
45	1319.590	1329.512	1339.434	1365.892	1375.814
50	1164.150	1174.072	1197.222	1236.909	1256.753
55	1015.324	1018.631	1061.625	1094.698	1124.463
60	843.347	859.883	919.414	982.251	1002.095
65	671.371	697.828	767.281	836.733	866.498
70	512.623	539.081	625.069	711.057	737.515
75	350.568	396.869	492.779	588.689	628.376
80	205.049	254.658	383.640	479.550	522.545
85	69.452	162.055	281.116	377.026	420.020
90	0.000	89.296	208.356	294.345	327.417
95	0.000	46.301	142.211	228.200	257.965
100	0.000	23.151	99.217	168.669	198.435
105	0.000	13.229	69.452	122.368	148.826
110	0.000	9.922	46.301	89.296	105.832
115	0.000	6.614	29.765	62.838	79.374
120	0.000	0.000	16.536	39.687	49.609
125	0.000	0.000	13.229	26.458	33.072
130	0.000	0.000	0.000	16.536	19.843
135	0.000	0.000	0.000	0.000	13.229
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

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	737.80	N.A.	11.50
0-30	1567.03	N.A.	24.40
0-40	2567.61	N.A.	40.00
0-60	4556.46	N.A.	71.00
0-80	5842.37	N.A.	91.00
0-90	6139.99	N.A.	95.70
10-90	5949.04	N.A.	92.70
20-40	1829.8	N.A.	28.50
20-50	2867.78	N.A.	44.70
40-70	2752.05	N.A.	42.90
60-80	1285.91	N.A.	20.00
70-80	522.72	N.A.	8.10
80-90	297.62	N.A.	4.60
90-110	228.69	N.A.	3.60
90-120	263.41	N.A.	4.10
90-130	275.84	N.A.	4.30
90-150	277.81	N.A.	4.30
90-180	277.81	N.A.	4.30
110-180	49.12	N.A.	0.80
0-180	6417.8	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	190.95
10-20	546.85
20-30	829.23
30-40	1000.58
40-50	1037.98
50-60	950.88
60-70	763.20
70-80	522.72
80-90	297.62
90-100	152.66
100-110	76.03
110-120	34.72
120-130	12.43
130-140	1.98
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	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	58	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

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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	21.2	22.8	21.6	23.2	23.6	22.9	24.5	23.3	24.9	25.3
	3H	22.7	24.1	23.1	24.5	25.0	25.2	26.7	25.6	27.1	27.5
	4H	23.1	24.5	23.6	24.9	25.4	26.3	27.7	26.8	28.1	28.6
	6H	23.4	24.7	23.9	25.1	25.6	27.5	28.8	28.0	29.2	29.7
	8H	23.5	24.7	24.0	25.2	25.7	28.1	29.3	28.6	29.8	30.3
	12H	23.5	24.7	24.0	25.1	25.7	28.8	29.9	29.2	30.4	30.9

UGR Viewed Endwise

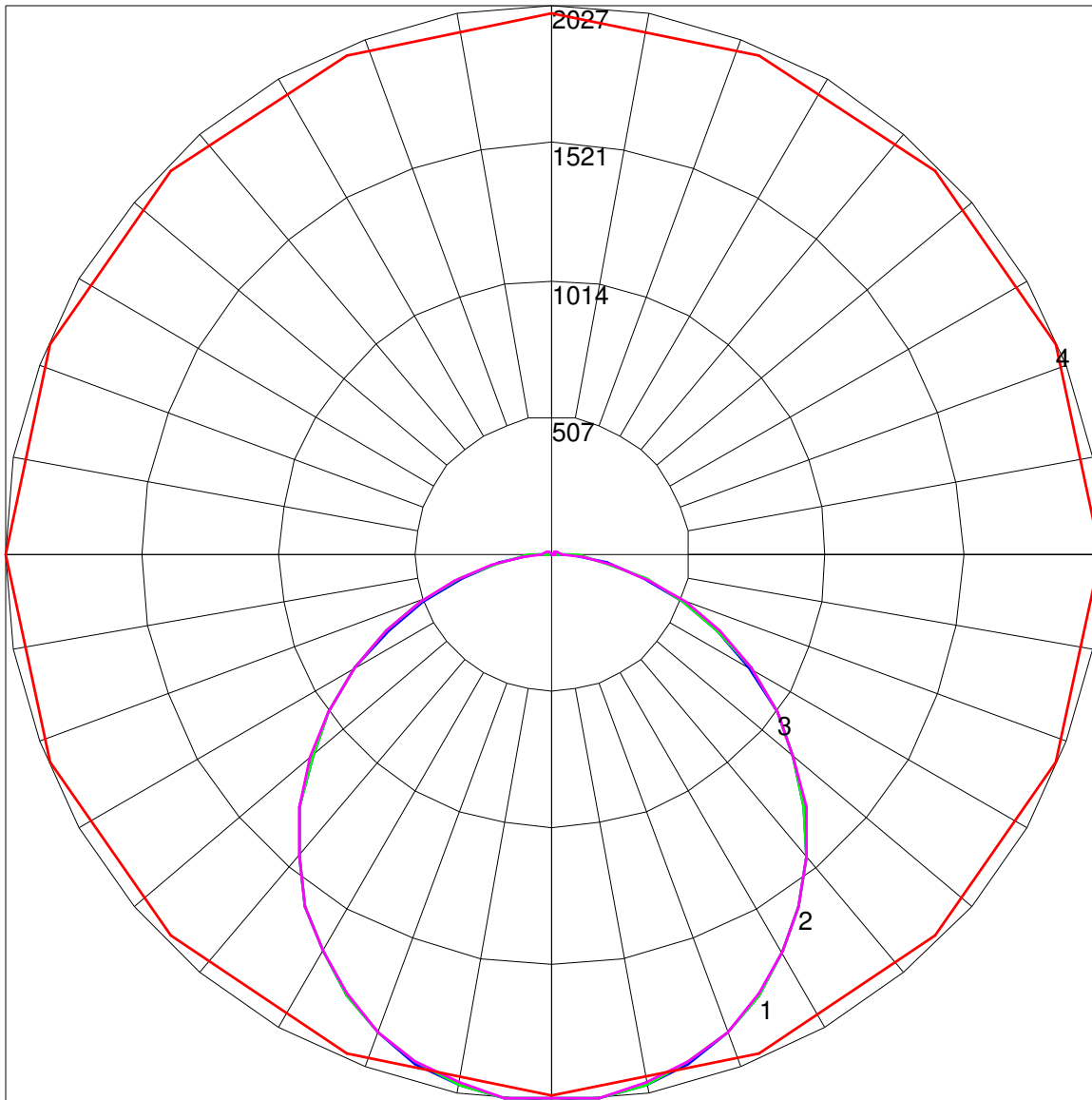
4H	2H	22.0	23.3	22.4	23.8	24.2	23.3	24.7	23.8	25.1	25.6
	3H	23.7	24.8	24.1	25.3	25.8	25.8	27.0	26.3	27.5	28.0
	4H	24.2	25.3	24.7	25.8	26.3	27.1	28.2	27.6	28.7	29.2
	6H	24.6	25.6	25.1	26.1	26.6	28.5	29.4	29.0	29.9	30.5
	8H	24.7	25.6	25.2	26.1	26.7	29.2	30.0	29.7	30.5	31.1
	12H	24.8	25.6	25.3	26.1	26.7	29.9	30.7	30.5	31.3	31.8

8H	4H	24.8	25.7	25.3	26.2	26.7	27.3	28.2	27.8	28.7	29.3
	6H	25.3	26.1	25.9	26.6	27.2	28.8	29.5	29.3	30.1	30.7
	8H	25.5	26.2	26.0	26.7	27.3	29.6	30.3	30.2	30.9	31.4
	12H	25.6	26.2	26.2	26.7	27.4	30.6	31.2	31.1	31.7	32.4

12H	4H	24.9	25.7	25.5	26.3	26.8	27.3	28.1	27.9	28.7	29.2
	6H	25.5	26.2	26.1	26.8	27.4	28.8	29.5	29.4	30.0	30.7
	8H	25.8	26.4	26.4	26.9	27.6	29.7	30.3	30.3	30.9	31.5

Maximum UGR = 32.4

POLAR GRAPH



Maximum Candela = 2027.341 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.)