



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : SL-8-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] 96 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-8-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	8516
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	120
Total Luminaire Watts	70.8
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)	8.00 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	26474	21283	20178
55	25050	19061	18201
65	22387	16407	16197
75	18914	13532	14416
85	10656	11263	12981

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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	2681.399	2681.399	2681.399	2681.399	2681.399
5	2690.176	2677.011	2659.457	2655.068	2659.457
10	2650.679	2637.514	2619.960	2619.960	2628.737
15	2593.628	2580.463	2562.909	2567.297	2567.297
20	2505.858	2492.692	2470.749	2488.303	2492.692
25	2396.144	2382.978	2378.590	2391.755	2400.533
30	2260.099	2260.099	2260.099	2277.653	2273.265
35	2115.277	2115.277	2115.277	2132.831	2145.997
40	1939.736	1944.124	1948.513	1979.233	1996.787
45	1751.028	1764.194	1777.360	1812.468	1825.634
50	1544.767	1557.932	1588.652	1641.315	1667.646
55	1347.282	1351.671	1408.722	1452.607	1492.104
60	1119.078	1141.021	1220.015	1303.397	1329.728
65	890.874	925.982	1018.142	1110.301	1149.798
70	680.224	715.332	829.434	943.537	978.645
75	465.185	526.625	653.893	781.161	833.823
80	272.090	337.918	509.071	636.339	693.390
85	92.159	215.039	373.026	500.294	557.345
90	0.000	118.491	276.478	390.580	434.466
95	0.000	61.440	188.707	302.809	342.306
100	0.000	30.720	131.656	223.816	263.313
105	0.000	17.554	92.159	162.376	197.484
110	0.000	13.166	61.440	118.491	140.433
115	0.000	8.777	39.497	83.382	105.325
120	0.000	0.000	21.943	52.663	65.828
125	0.000	0.000	17.554	35.108	43.885
130	0.000	0.000	0.000	21.943	26.331
135	0.000	0.000	0.000	0.000	17.554
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	979.03	N.A.	11.50
0-30	2079.37	N.A.	24.40
0-40	3407.08	N.A.	40.00
0-60	6046.18	N.A.	71.00
0-80	7752.53	N.A.	91.00
0-90	8147.45	N.A.	95.70
10-90	7894.07	N.A.	92.70
20-40	2428.05	N.A.	28.50
20-50	3805.4	N.A.	44.70
40-70	3651.83	N.A.	42.90
60-80	1706.34	N.A.	20.00
70-80	693.62	N.A.	8.10
80-90	394.92	N.A.	4.60
90-110	303.46	N.A.	3.60
90-120	349.53	N.A.	4.10
90-130	366.02	N.A.	4.30
90-150	368.65	N.A.	4.30
90-180	368.65	N.A.	4.30
110-180	65.18	N.A.	0.80
0-180	8516.09	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	253.38
10-20	725.64
20-30	1100.34
30-40	1327.71
40-50	1377.34
50-60	1261.76
60-70	1012.72
70-80	693.62
80-90	394.92
90-100	202.58
100-110	100.89
110-120	46.07
120-130	16.49
130-140	2.62
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	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

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**UGR TABLE - CORRECTED**

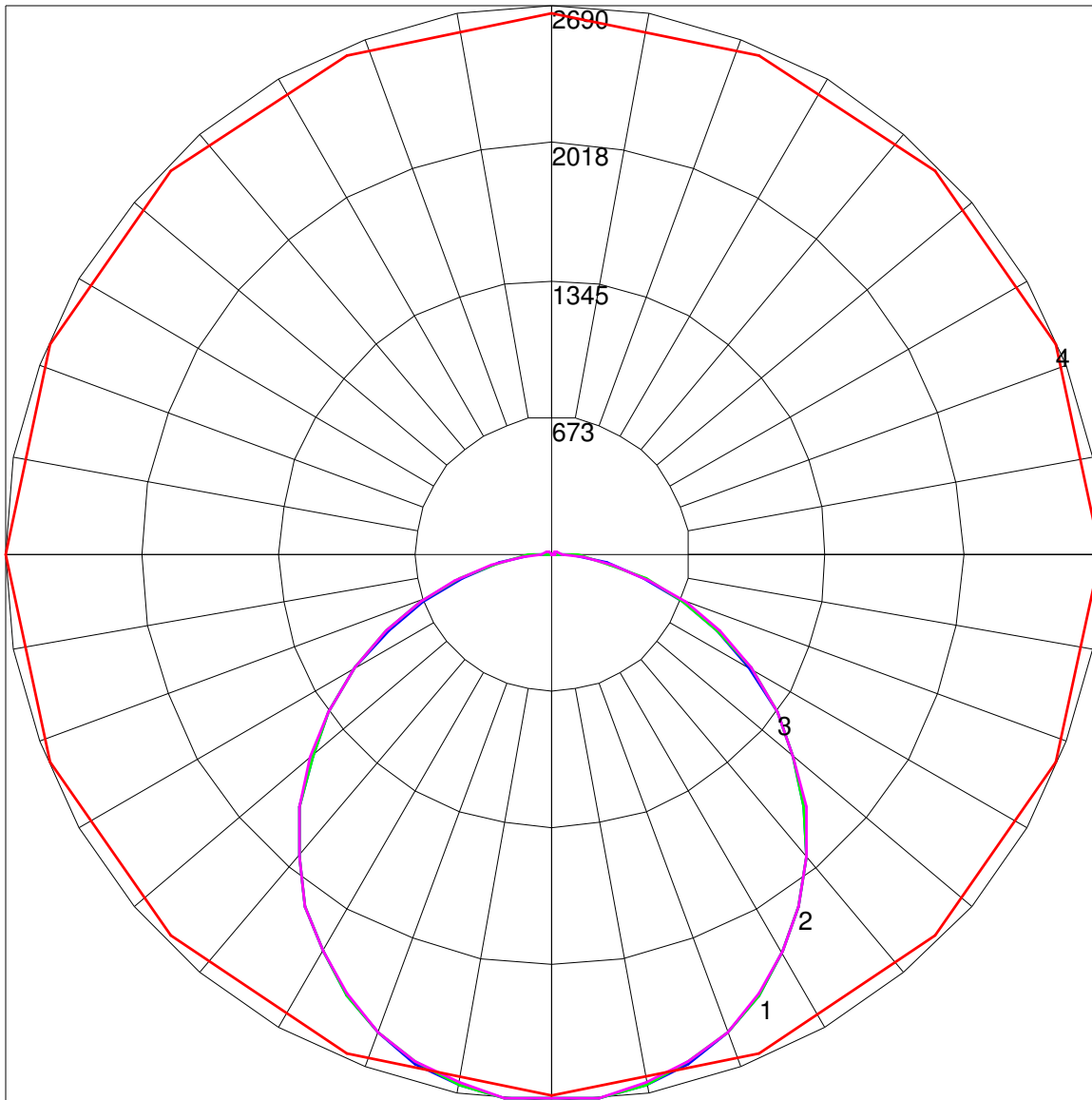
Reflectances

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					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	26.6	25.6	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	25.0	25.5	27.4	28.7	27.9	29.1	29.6
	8H	23.4	24.6	23.9	25.1	25.6	28.0	29.2	28.5	29.7	30.2
	12H	23.4	24.6	23.9	25.0	25.6	28.7	29.9	29.2	30.3	30.8
4H	2H	21.9	23.3	22.3	23.7	24.2	23.2	24.6	23.7	25.0	25.5
	3H	23.6	24.7	24.0	25.2	25.7	25.8	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	28.6	29.1
	6H	24.5	25.5	25.1	26.0	26.5	28.4	29.3	28.9	29.8	30.4
	8H	24.6	25.5	25.2	26.0	26.6	29.1	30.0	29.6	30.5	31.0
	12H	24.7	25.5	25.2	26.0	26.6	29.9	30.7	30.4	31.2	31.8
8H	4H	24.7	25.6	25.2	26.1	26.6	27.2	28.1	27.7	28.6	29.2
	6H	25.2	26.0	25.8	26.5	27.1	28.7	29.5	29.2	30.0	30.6
	8H	25.4	26.1	25.9	26.6	27.2	29.5	30.2	30.1	30.8	31.4
	12H	25.5	26.1	26.1	26.7	27.3	30.5	31.1	31.1	31.6	32.3
12H	4H	24.8	25.6	25.4	26.2	26.7	27.2	28.0	27.8	28.6	29.1
	6H	25.5	26.1	26.0	26.7	27.3	28.7	29.4	29.3	30.0	30.6
	8H	25.7	26.3	26.3	26.8	27.5	29.6	30.2	30.2	30.8	31.4

Maximum UGR = 32.3

POLAR GRAPH



Maximum Candela = 2690.176 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.)