



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : SL-8-L10-835-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

[ISSUE DATE] 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-L10-835-RD-DIM-UNV

[LAMPCAT] 22 INCH LED ARRAY

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	8034
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	113
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	24976	20079	19036
55	23632	17982	17171
65	21120	15478	15280
75	17843	12766	13600
85	10053	10626	12246

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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	2529.622	2529.622	2529.622	2529.622	2529.622
5	2537.902	2525.482	2508.921	2504.781	2508.921
10	2500.641	2488.220	2471.660	2471.660	2479.940
15	2446.819	2434.399	2417.838	2421.978	2421.978
20	2364.016	2351.596	2330.895	2347.456	2351.596
25	2260.513	2248.093	2243.953	2256.373	2264.653
30	2132.169	2132.169	2132.169	2148.729	2144.589
35	1995.545	1995.545	1995.545	2012.105	2024.525
40	1829.939	1834.079	1838.219	1867.200	1883.761
45	1651.913	1664.334	1676.754	1709.875	1722.296
50	1457.327	1469.748	1498.728	1548.410	1573.251
55	1271.021	1275.161	1328.983	1370.384	1407.646
60	1055.734	1076.435	1150.957	1229.620	1254.461
65	840.447	873.568	960.511	1047.454	1084.715
70	641.721	674.842	782.485	890.129	923.250
75	438.854	496.816	616.880	736.944	786.625
80	256.688	318.790	480.256	600.319	654.141
85	86.943	202.867	351.911	471.975	525.797
90	0.000	111.784	260.828	368.472	409.873
95	0.000	57.962	178.026	285.669	322.930
100	0.000	28.981	124.204	211.147	248.408
105	0.000	16.561	86.943	153.185	186.306
110	0.000	12.420	57.962	111.784	132.484
115	0.000	8.280	37.261	78.663	99.363
120	0.000	0.000	20.701	49.682	62.102
125	0.000	0.000	16.561	33.121	41.401
130	0.000	0.000	0.000	20.701	24.841
135	0.000	0.000	0.000	0.000	16.561
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	923.61	N.A.	11.50
0-30	1961.67	N.A.	24.40
0-40	3214.23	N.A.	40.00
0-60	5703.95	N.A.	71.00
0-80	7313.7	N.A.	91.00
0-90	7686.27	N.A.	95.70
10-90	7447.23	N.A.	92.70
20-40	2290.62	N.A.	28.50
20-50	3590.00	N.A.	44.70
40-70	3445.12	N.A.	42.90
60-80	1609.76	N.A.	20.00
70-80	654.36	N.A.	8.10
80-90	372.57	N.A.	4.60
90-110	286.28	N.A.	3.60
90-120	329.75	N.A.	4.10
90-130	345.30	N.A.	4.30
90-150	347.78	N.A.	4.30
90-180	347.78	N.A.	4.30
110-180	61.49	N.A.	0.80
0-180	8034.05	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	239.04
10-20	684.57
20-30	1038.06
30-40	1252.56
40-50	1299.38
50-60	1190.34
60-70	955.40
70-80	654.36
80-90	372.57
90-100	191.11
100-110	95.17
110-120	43.46
120-130	15.56
130-140	2.47
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

X=2H	Y=2H	20.9	22.5	21.3	22.9	23.3	22.6	24.2	23.0	24.6	25.0
	3H	22.4	23.8	22.8	24.2	24.7	24.9	26.4	25.4	26.8	27.2
	4H	22.8	24.2	23.3	24.6	25.1	26.0	27.4	26.5	27.8	28.3
	6H	23.1	24.4	23.6	24.8	25.3	27.2	28.5	27.7	28.9	29.4
	8H	23.2	24.4	23.7	24.9	25.4	27.8	29.0	28.3	29.5	30.0
	12H	23.2	24.4	23.7	24.8	25.4	28.5	29.7	29.0	30.1	30.6

UGR Viewed Endwise

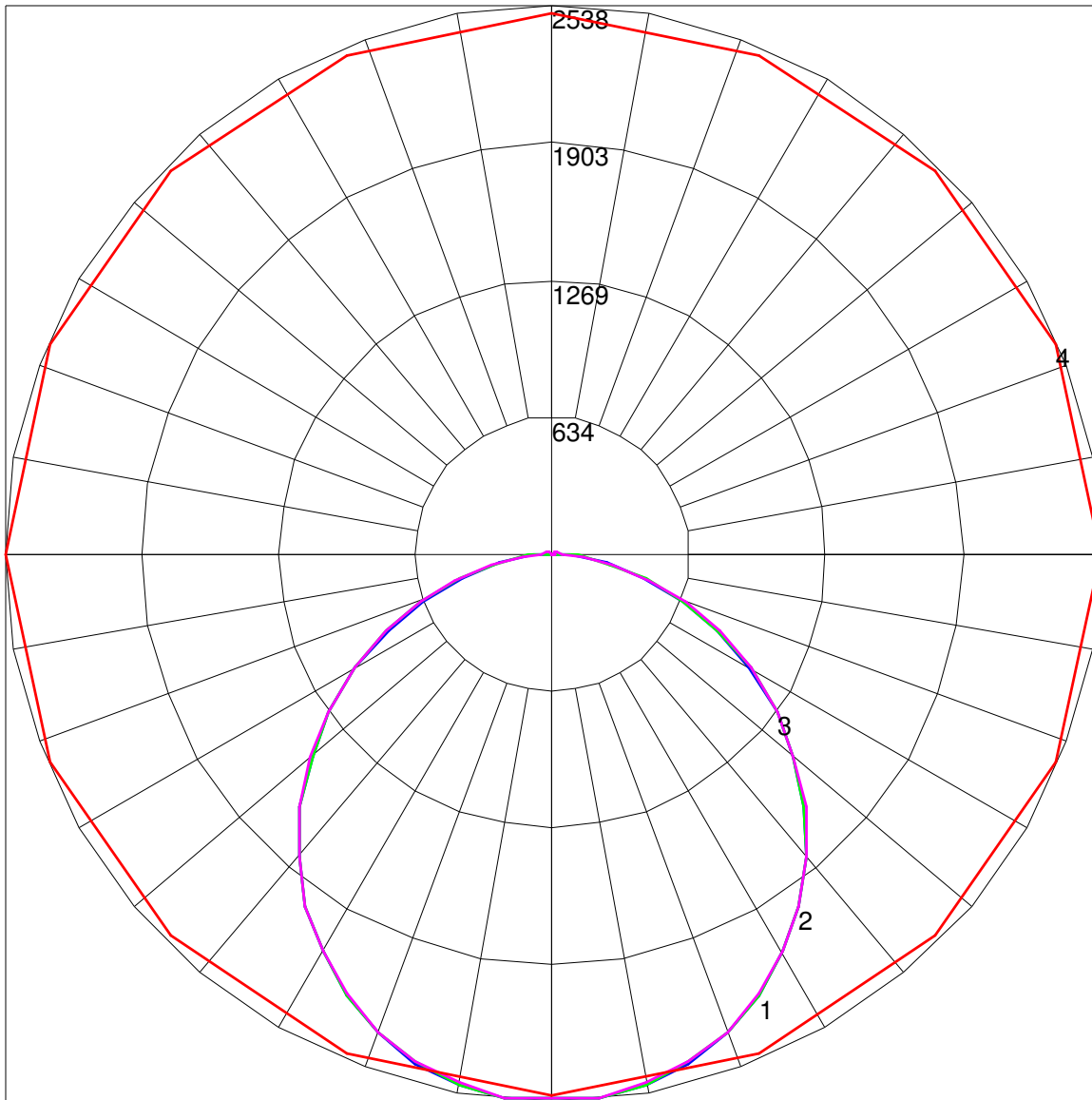
4H	2H	21.7	23.1	22.1	23.5	24.0	23.0	24.4	23.5	24.8	25.3
	3H	23.4	24.5	23.8	25.0	25.5	25.6	26.7	26.0	27.2	27.7
	4H	23.9	25.0	24.4	25.5	26.0	26.8	27.9	27.3	28.4	28.9
	6H	24.3	25.3	24.9	25.8	26.3	28.2	29.1	28.7	29.6	30.2
	8H	24.4	25.3	25.0	25.8	26.4	28.9	29.8	29.4	30.3	30.8
	12H	24.5	25.3	25.0	25.8	26.4	29.7	30.5	30.2	31.0	31.6

8H	4H	24.5	25.4	25.0	25.9	26.4	27.0	27.9	27.5	28.4	29.0
	6H	25.0	25.8	25.6	26.3	26.9	28.5	29.3	29.0	29.8	30.4
	8H	25.2	25.9	25.7	26.4	27.0	29.3	30.0	29.9	30.6	31.2
	12H	25.3	25.9	25.9	26.5	27.1	30.3	30.9	30.9	31.4	32.1

12H	4H	24.6	25.4	25.2	26.0	26.5	27.0	27.8	27.6	28.4	28.9
	6H	25.3	25.9	25.8	26.5	27.1	28.5	29.2	29.1	29.8	30.4
	8H	25.5	26.1	26.1	26.6	27.3	29.4	30.0	30.0	30.6	31.2

Maximum UGR = 32.1

POLAR GRAPH



Maximum Candela = 2537.902 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.)