



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : SL-8-L3-835-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  
[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-L3-835-RD-DIM-UNV  
[LAMPCAT] 22 INCH LED ARRAY

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2567
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	122
Total Luminaire Watts	21.1
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	7981	6416	6083
55	7552	5746	5487
65	6749	4946	4883
75	5702	4080	4346
85	3212	3396	3913

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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	808.371	808.371	808.371	808.371	808.371
5	811.017	807.048	801.756	800.433	801.756
10	799.110	795.140	789.848	789.848	792.494
15	781.910	777.941	772.649	773.972	773.972
20	755.450	751.480	744.865	750.157	751.480
25	722.374	718.405	717.082	721.051	723.697
30	681.360	681.360	681.360	686.652	685.329
35	637.700	637.700	637.700	642.992	646.961
40	584.779	586.102	587.425	596.686	601.978
45	527.889	531.858	535.827	546.411	550.380
50	465.706	469.675	478.937	494.813	502.751
55	406.170	407.493	424.692	437.923	449.830
60	337.372	343.988	367.802	392.940	400.878
65	268.575	279.159	306.943	334.726	346.634
70	205.070	215.654	250.052	284.451	295.035
75	140.241	158.763	197.131	235.499	251.376
80	82.028	101.873	153.471	191.839	209.039
85	27.784	64.828	112.457	150.825	168.025
90	0.000	35.722	83.351	117.750	130.980
95	0.000	18.522	56.890	91.289	103.196
100	0.000	9.261	39.691	67.474	79.382
105	0.000	5.292	27.784	48.952	59.536
110	0.000	3.969	18.522	35.722	42.337
115	0.000	2.646	11.907	25.138	31.753
120	0.000	0.000	6.615	15.876	19.845
125	0.000	0.000	5.292	10.584	13.230
130	0.000	0.000	0.000	6.615	7.938
135	0.000	0.000	0.000	0.000	5.292
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

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	295.15	N.A.	11.50
0-30	626.87	N.A.	24.40
0-40	1027.14	N.A.	40.00
0-60	1822.76	N.A.	71.00
0-80	2337.18	N.A.	91.00
0-90	2456.24	N.A.	95.70
10-90	2379.85	N.A.	92.70
20-40	731.99	N.A.	28.50
20-50	1147.23	N.A.	44.70
40-70	1100.93	N.A.	42.90
60-80	514.42	N.A.	20.00
70-80	209.11	N.A.	8.10
80-90	119.06	N.A.	4.60
90-110	91.49	N.A.	3.60
90-120	105.38	N.A.	4.10
90-130	110.35	N.A.	4.30
90-150	111.14	N.A.	4.30
90-180	111.14	N.A.	4.30
110-180	19.65	N.A.	0.80
0-180	2567.38	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	76.39
10-20	218.76
20-30	331.72
30-40	400.27
40-50	415.23
50-60	380.39
60-70	305.31
70-80	209.11
80-90	119.06
90-100	61.07
100-110	30.41
110-120	13.89
120-130	4.97
130-140	0.79
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	56	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**

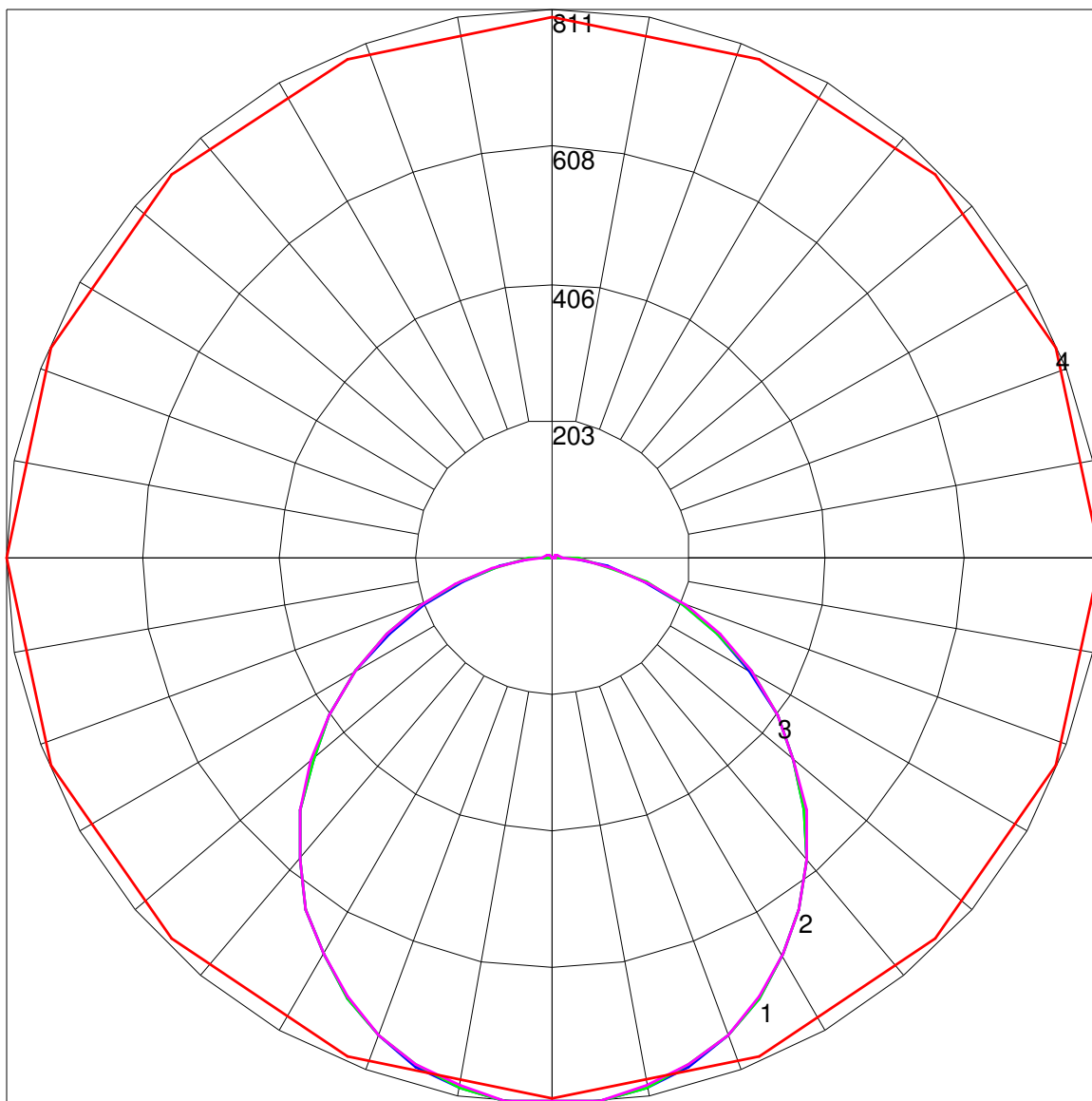
Reflectances

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	17.0	18.6	17.4	19.0	19.4	18.7	20.3	19.1	20.7	21.1
	3H	18.5	19.9	18.9	20.3	20.8	21.0	22.5	21.5	22.9	23.3
	4H	18.9	20.3	19.4	20.7	21.2	22.1	23.5	22.6	23.9	24.4
	6H	19.2	20.5	19.7	20.9	21.4	23.3	24.6	23.8	25.0	25.5
	8H	19.3	20.5	19.8	21.0	21.5	23.9	25.1	24.4	25.6	26.1
	12H	19.3	20.5	19.8	20.9	21.5	24.6	25.8	25.1	26.2	26.7
4H	2H	17.8	19.2	18.2	19.6	20.1	19.1	20.5	19.6	20.9	21.4
	3H	19.5	20.6	19.9	21.1	21.6	21.7	22.8	22.1	23.3	23.8
	4H	20.0	21.1	20.5	21.6	22.1	22.9	24.0	23.4	24.5	25.0
	6H	20.4	21.4	21.0	21.9	22.4	24.3	25.2	24.8	25.7	26.3
	8H	20.5	21.4	21.1	21.9	22.5	25.0	25.9	25.5	26.4	26.9
	12H	20.6	21.4	21.1	21.9	22.5	25.8	26.6	26.3	27.1	27.7
8H	4H	20.6	21.5	21.1	22.0	22.5	23.1	24.0	23.6	24.5	25.1
	6H	21.1	21.9	21.7	22.4	23.0	24.6	25.4	25.1	25.9	26.5
	8H	21.3	22.0	21.8	22.5	23.1	25.4	26.1	26.0	26.7	27.3
	12H	21.4	22.0	22.0	22.6	23.2	26.4	27.0	27.0	27.5	28.2
12H	4H	20.7	21.5	21.3	22.1	22.6	23.1	23.9	23.7	24.5	25.0
	6H	21.4	22.0	21.9	22.6	23.2	24.6	25.3	25.2	25.9	26.5
	8H	21.6	22.2	22.2	22.7	23.4	25.5	26.1	26.1	26.7	27.3

Maximum UGR = 28.2

POLAR GRAPH



Maximum Candela = 811.017 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.)