



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : SL-2-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] 24 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-2-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	623
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	113
Total Luminaire Watts	5.5
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)	2.00 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	7612	6166	5903
55	7150	5506	5325
65	6314	4720	4739
75	5199	3869	4217
85	2622	3184	3798

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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	196.112	196.112	196.112	196.112	196.112
5	196.754	195.791	194.507	194.186	194.507
10	193.865	192.902	191.618	191.618	192.260
15	189.692	188.730	187.446	187.767	187.767
20	183.273	182.310	180.705	181.989	182.310
25	175.249	174.286	173.965	174.928	175.570
30	165.299	165.299	165.299	166.583	166.262
35	154.707	154.707	154.707	155.991	156.954
40	141.868	142.189	142.510	144.757	146.041
45	128.066	129.029	129.992	132.560	133.523
50	112.981	113.944	116.191	120.042	121.968
55	98.537	98.858	103.031	106.241	109.129
60	81.847	83.452	89.229	95.328	97.253
65	65.157	67.724	74.465	81.205	84.094
70	49.750	52.318	60.663	69.008	71.576
75	34.023	38.516	47.824	57.132	60.984
80	19.900	24.715	37.232	46.540	50.713
85	6.740	15.727	27.282	36.590	40.763
90	0.000	8.666	20.221	28.566	31.776
95	0.000	4.494	13.802	22.147	25.036
100	0.000	2.247	9.629	16.369	19.258
105	0.000	1.284	6.740	11.876	14.444
110	0.000	0.963	4.494	8.666	10.271
115	0.000	0.642	2.889	6.098	7.703
120	0.000	0.000	1.605	3.852	4.815
125	0.000	0.000	1.284	2.568	3.210
130	0.000	0.000	0.000	1.605	1.926
135	0.000	0.000	0.000	0.000	1.284
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	71.60	N.A.	11.50
0-30	152.08	N.A.	24.40
0-40	249.19	N.A.	40.00
0-60	442.21	N.A.	71.00
0-80	567.00	N.A.	91.00
0-90	595.89	N.A.	95.70
10-90	577.35	N.A.	92.70
20-40	177.58	N.A.	28.50
20-50	278.32	N.A.	44.70
40-70	267.09	N.A.	42.90
60-80	124.80	N.A.	20.00
70-80	50.73	N.A.	8.10
80-90	28.88	N.A.	4.60
90-110	22.19	N.A.	3.60
90-120	25.56	N.A.	4.10
90-130	26.77	N.A.	4.30
90-150	26.96	N.A.	4.30
90-180	26.96	N.A.	4.30
110-180	4.77	N.A.	0.80
0-180	622.85	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	18.53
10-20	53.07
20-30	80.48
30-40	97.11
40-50	100.74
50-60	92.28
60-70	74.07
70-80	50.73
80-90	28.88
90-100	14.82
100-110	7.38
110-120	3.37
120-130	1.21
130-140	0.19
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	88	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	67	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	29	24	36	29	24	35	28	24	33	28	23	22

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**UGR TABLE - CORRECTED**

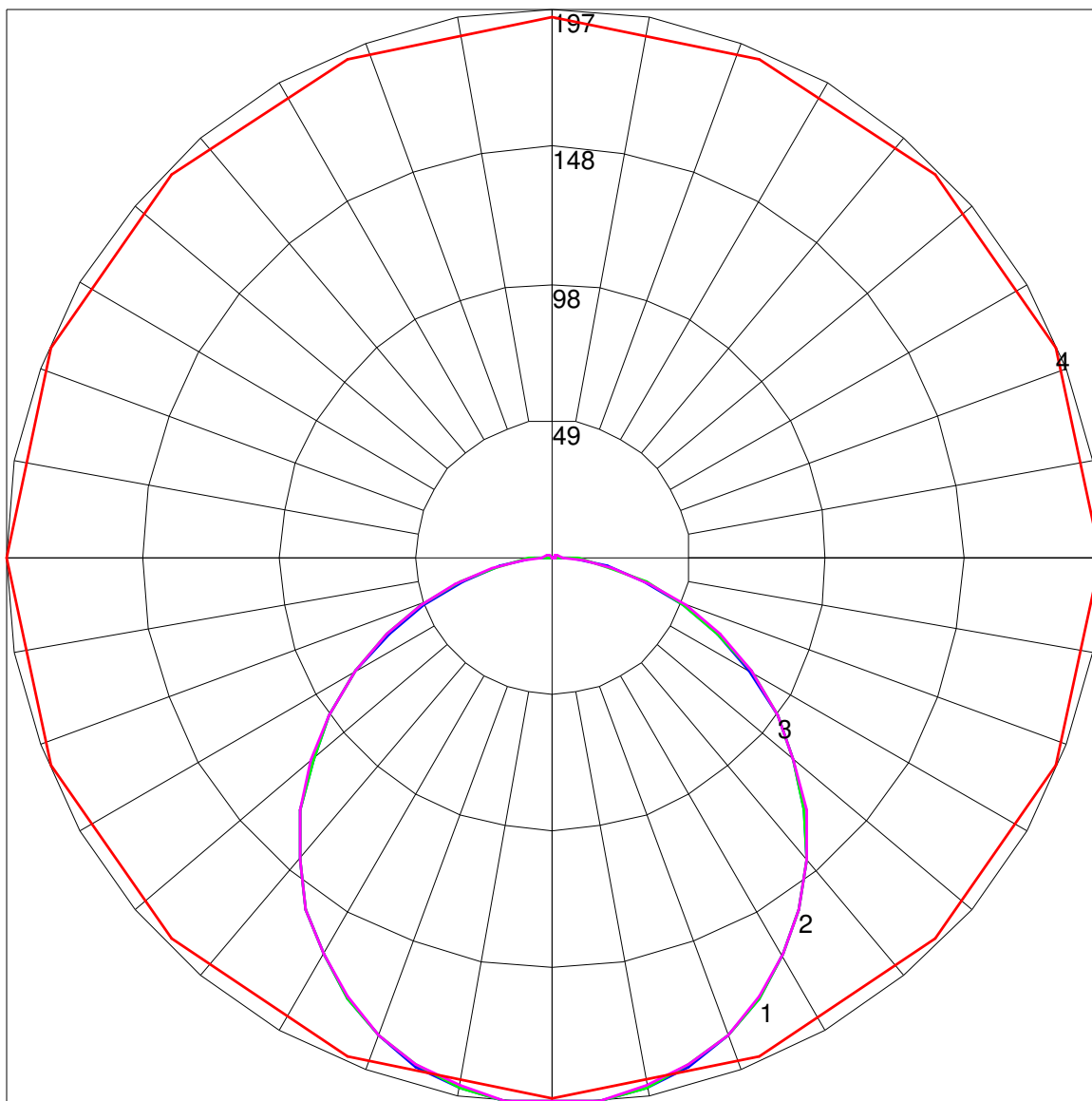
Reflectances

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	16.9	18.5	17.3	18.9	19.3	18.6	20.1	19.0	20.5	20.9
	3H	18.4	19.8	18.8	20.2	20.7	20.8	22.3	21.3	22.7	23.1
	4H	18.8	20.2	19.3	20.6	21.1	21.9	23.3	22.4	23.7	24.2
	6H	19.1	20.4	19.6	20.8	21.3	23.1	24.3	23.5	24.8	25.3
	8H	19.2	20.4	19.7	20.9	21.4	23.6	24.9	24.1	25.3	25.8
	12H	19.2	20.4	19.7	20.8	21.4	24.3	25.4	24.8	25.9	26.4
4H	2H	17.7	19.0	18.1	19.5	19.9	19.0	20.3	19.4	20.8	21.2
	3H	19.3	20.5	19.8	21.0	21.5	21.5	22.6	22.0	23.1	23.6
	4H	19.9	21.0	20.4	21.5	22.0	22.7	23.8	23.2	24.3	24.8
	6H	20.3	21.3	20.8	21.8	22.3	24.0	25.0	24.6	25.5	26.0
	8H	20.4	21.3	20.9	21.8	22.4	24.7	25.6	25.2	26.1	26.7
	12H	20.5	21.3	21.0	21.8	22.4	25.5	26.2	26.0	26.8	27.4
8H	4H	20.5	21.4	21.0	21.9	22.4	22.9	23.8	23.4	24.3	24.9
	6H	21.0	21.7	21.5	22.3	22.9	24.4	25.1	24.9	25.7	26.2
	8H	21.2	21.8	21.7	22.4	23.0	25.2	25.8	25.7	26.4	27.0
	12H	21.3	21.9	21.8	22.4	23.1	26.1	26.7	26.6	27.2	27.9
12H	4H	20.6	21.4	21.2	22.0	22.5	22.9	23.7	23.5	24.3	24.8
	6H	21.2	21.9	21.8	22.4	23.1	24.4	25.1	25.0	25.6	26.2
	8H	21.5	22.1	22.0	22.6	23.3	25.3	25.9	25.8	26.4	27.1

Maximum UGR = 27.9

POLAR GRAPH



Maximum Candela = 196.754 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.)