



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : SL-4-L3-840-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] 48 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-4-L3-840-RD-DIM-UNV  
[LAMPCAT] 22 INCH LED ARRAY

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1254
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	114
Total Luminaire Watts	11
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)	4.00 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	7753	6249	5943
55	7318	5591	5361
65	6513	4806	4771
75	5454	3955	4246
85	2953	3280	3824



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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	394.912	394.912	394.912	394.912	394.912
5	396.205	394.266	391.680	391.034	391.680
10	390.387	388.448	385.863	385.863	387.156
15	381.985	380.046	377.461	378.107	378.107
20	369.058	367.119	363.888	366.473	367.119
25	352.900	350.961	350.315	352.254	353.546
30	332.864	332.864	332.864	335.449	334.803
35	311.534	311.534	311.534	314.120	316.059
40	285.681	286.327	286.974	291.498	294.083
45	257.888	259.827	261.766	266.937	268.876
50	227.511	229.450	233.974	241.730	245.608
55	198.425	199.072	207.474	213.938	219.755
60	164.816	168.048	179.682	191.962	195.840
65	131.206	136.377	149.950	163.523	169.340
70	100.182	105.353	122.158	138.962	144.133
75	68.512	77.560	96.304	115.048	122.804
80	40.073	49.768	74.975	93.719	102.121
85	13.573	31.671	54.939	73.682	82.085
90	0.000	17.451	40.719	57.524	63.987
95	0.000	9.049	27.792	44.597	50.414
100	0.000	4.524	19.390	32.963	38.780
105	0.000	2.585	13.573	23.914	29.085
110	0.000	1.939	9.049	17.451	20.683
115	0.000	1.293	5.817	12.280	15.512
120	0.000	0.000	3.232	7.756	9.695
125	0.000	0.000	2.585	5.171	6.463
130	0.000	0.000	0.000	3.232	3.878
135	0.000	0.000	0.000	0.000	2.585
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	144.19	N.A.	11.50
0-30	306.25	N.A.	24.40
0-40	501.79	N.A.	40.00
0-60	890.47	N.A.	71.00
0-80	1141.78	N.A.	91.00
0-90	1199.94	N.A.	95.70
10-90	1162.62	N.A.	92.70
20-40	357.60	N.A.	28.50
20-50	560.45	N.A.	44.70
40-70	537.83	N.A.	42.90
60-80	251.31	N.A.	20.00
70-80	102.15	N.A.	8.10
80-90	58.16	N.A.	4.60
90-110	44.69	N.A.	3.60
90-120	51.48	N.A.	4.10
90-130	53.91	N.A.	4.30
90-150	54.29	N.A.	4.30
90-180	54.29	N.A.	4.30
110-180	9.60	N.A.	0.80
0-180	1254.24	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	37.32
10-20	106.87
20-30	162.06
30-40	195.54
40-50	202.85
50-60	185.83
60-70	149.15
70-80	102.15
80-90	58.16
90-100	29.83
100-110	14.86
110-120	6.79
120-130	2.43
130-140	0.39
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

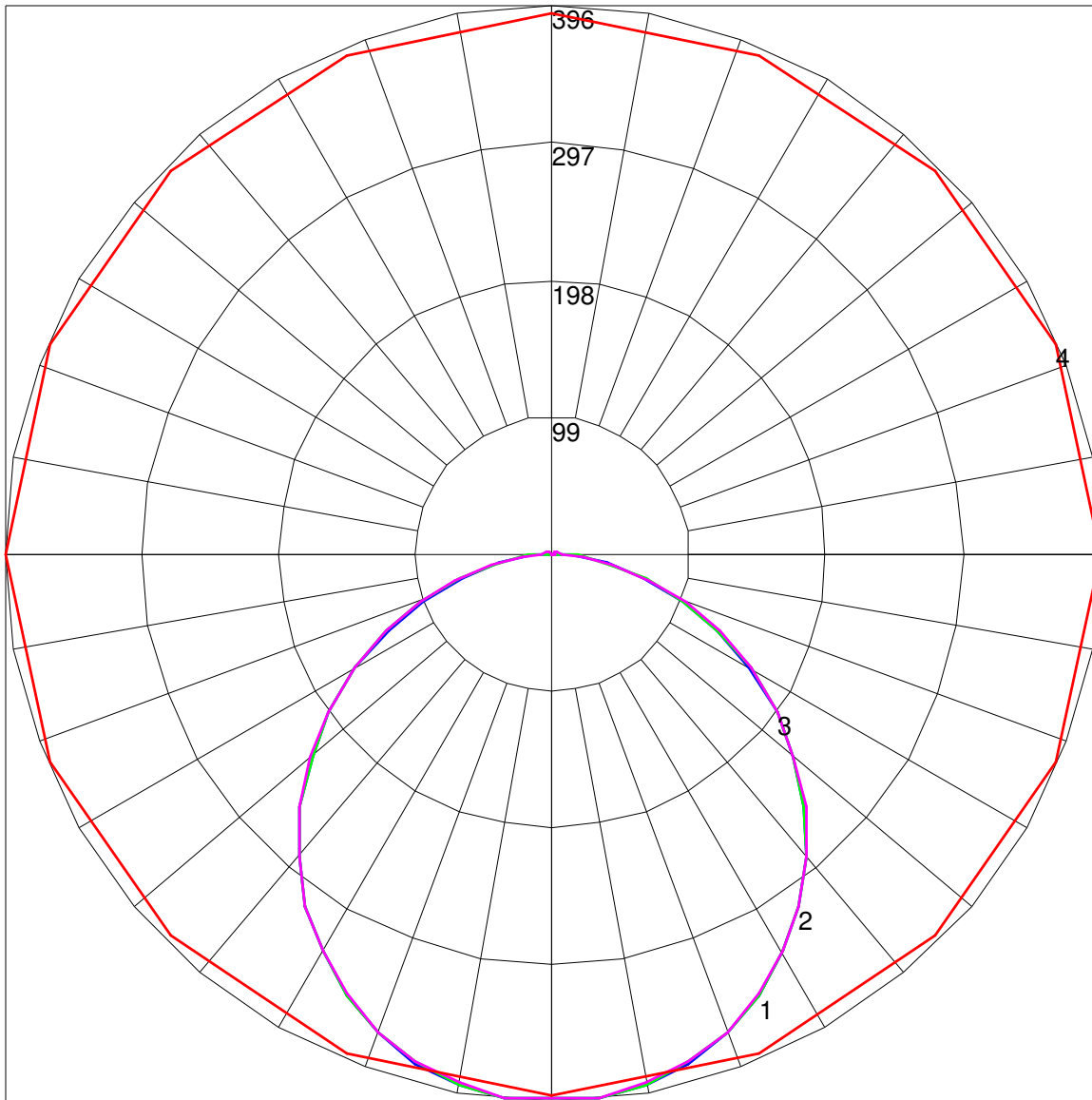
Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	16.9	18.5	17.3	18.9	19.3	18.6	20.2	19.0	20.6	21.0
	3H	18.4	19.8	18.8	20.2	20.7	20.9	22.3	21.3	22.8	23.2
	4H	18.8	20.2	19.3	20.6	21.1	22.0	23.4	22.5	23.8	24.3
	6H	19.1	20.4	19.6	20.9	21.3	23.2	24.4	23.6	24.9	25.4
	8H	19.2	20.4	19.7	20.9	21.4	23.8	25.0	24.3	25.5	25.9
	12H	19.2	20.4	19.7	20.8	21.4	24.4	25.6	24.9	26.0	26.6
4H	2H	17.7	19.1	18.1	19.5	19.9	19.0	20.4	19.5	20.8	21.3
	3H	19.4	20.5	19.8	21.0	21.5	21.5	22.7	22.0	23.2	23.7
	4H	19.9	21.0	20.4	21.5	22.0	22.8	23.9	23.3	24.3	24.9
	6H	20.3	21.3	20.9	21.8	22.3	24.1	25.1	24.7	25.6	26.1
	8H	20.4	21.3	21.0	21.8	22.4	24.8	25.7	25.3	26.2	26.8
	12H	20.5	21.3	21.0	21.8	22.4	25.6	26.4	26.1	26.9	27.5
8H	4H	20.5	21.4	21.0	21.9	22.4	23.0	23.9	23.5	24.4	24.9
	6H	21.0	21.8	21.6	22.3	22.9	24.5	25.2	25.0	25.8	26.3
	8H	21.2	21.9	21.7	22.4	23.0	25.3	26.0	25.8	26.5	27.1
	12H	21.3	21.9	21.9	22.4	23.1	26.2	26.8	26.8	27.4	28.0
12H	4H	20.6	21.4	21.2	22.0	22.5	23.0	23.8	23.5	24.3	24.9
	6H	21.2	21.9	21.8	22.5	23.1	24.5	25.2	25.1	25.7	26.3
	8H	21.5	22.1	22.1	22.6	23.3	25.4	26.0	25.9	26.5	27.2

Maximum UGR = 28.0



POLAR GRAPH



Maximum Candela = 396.205 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.)