



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : SL-4-L3-827-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-L3-827-RD-DIM-UNV  
[LAMPCAT] 22 INCH LED ARRAY

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1181
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	107
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	7301	5885	5597
55	6891	5265	5049
65	6134	4526	4493
75	5136	3725	3999
85	2781	3088	3601

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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	371.907	371.907	371.907	371.907	371.907
5	373.125	371.299	368.864	368.255	368.864
10	367.647	365.820	363.386	363.386	364.603
15	359.734	357.908	355.473	356.082	356.082
20	347.560	345.734	342.690	345.125	345.734
25	332.343	330.517	329.908	331.734	332.951
30	313.473	313.473	313.473	315.908	315.300
35	293.387	293.387	293.387	295.822	297.648
40	269.039	269.648	270.257	274.518	276.952
45	242.866	244.692	246.518	251.387	253.214
50	214.258	216.084	220.344	227.649	231.301
55	186.867	187.475	195.388	201.475	206.953
60	155.215	158.258	169.215	180.780	184.432
65	123.563	128.433	141.215	153.998	159.476
70	94.346	99.216	115.042	130.868	135.737
75	64.521	73.042	90.694	108.346	115.650
80	37.739	46.869	70.608	88.260	96.172
85	12.782	29.826	51.738	69.390	77.303
90	0.000	16.435	38.347	54.173	60.260
95	0.000	8.522	26.174	41.999	47.478
100	0.000	4.261	18.261	31.043	36.521
105	0.000	2.435	12.782	22.521	27.391
110	0.000	1.826	8.522	16.435	19.478
115	0.000	1.217	5.478	11.565	14.608
120	0.000	0.000	3.043	7.304	9.130
125	0.000	0.000	2.435	4.869	6.087
130	0.000	0.000	0.000	3.043	3.652
135	0.000	0.000	0.000	0.000	2.435
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	135.79	N.A.	11.50
0-30	288.41	N.A.	24.40
0-40	472.56	N.A.	40.00
0-60	838.60	N.A.	71.00
0-80	1075.27	N.A.	91.00
0-90	1130.04	N.A.	95.70
10-90	1094.9	N.A.	92.70
20-40	336.77	N.A.	28.50
20-50	527.80	N.A.	44.70
40-70	506.50	N.A.	42.90
60-80	236.67	N.A.	20.00
70-80	96.20	N.A.	8.10
80-90	54.78	N.A.	4.60
90-110	42.09	N.A.	3.60
90-120	48.48	N.A.	4.10
90-130	50.77	N.A.	4.30
90-150	51.13	N.A.	4.30
90-180	51.13	N.A.	4.30
110-180	9.04	N.A.	0.80
0-180	1181.17	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	35.14
10-20	100.65
20-30	152.62
30-40	184.15
40-50	191.04
50-60	175.01
60-70	140.46
70-80	96.20
80-90	54.78
90-100	28.10
100-110	13.99
110-120	6.39
120-130	2.29
130-140	0.36
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**

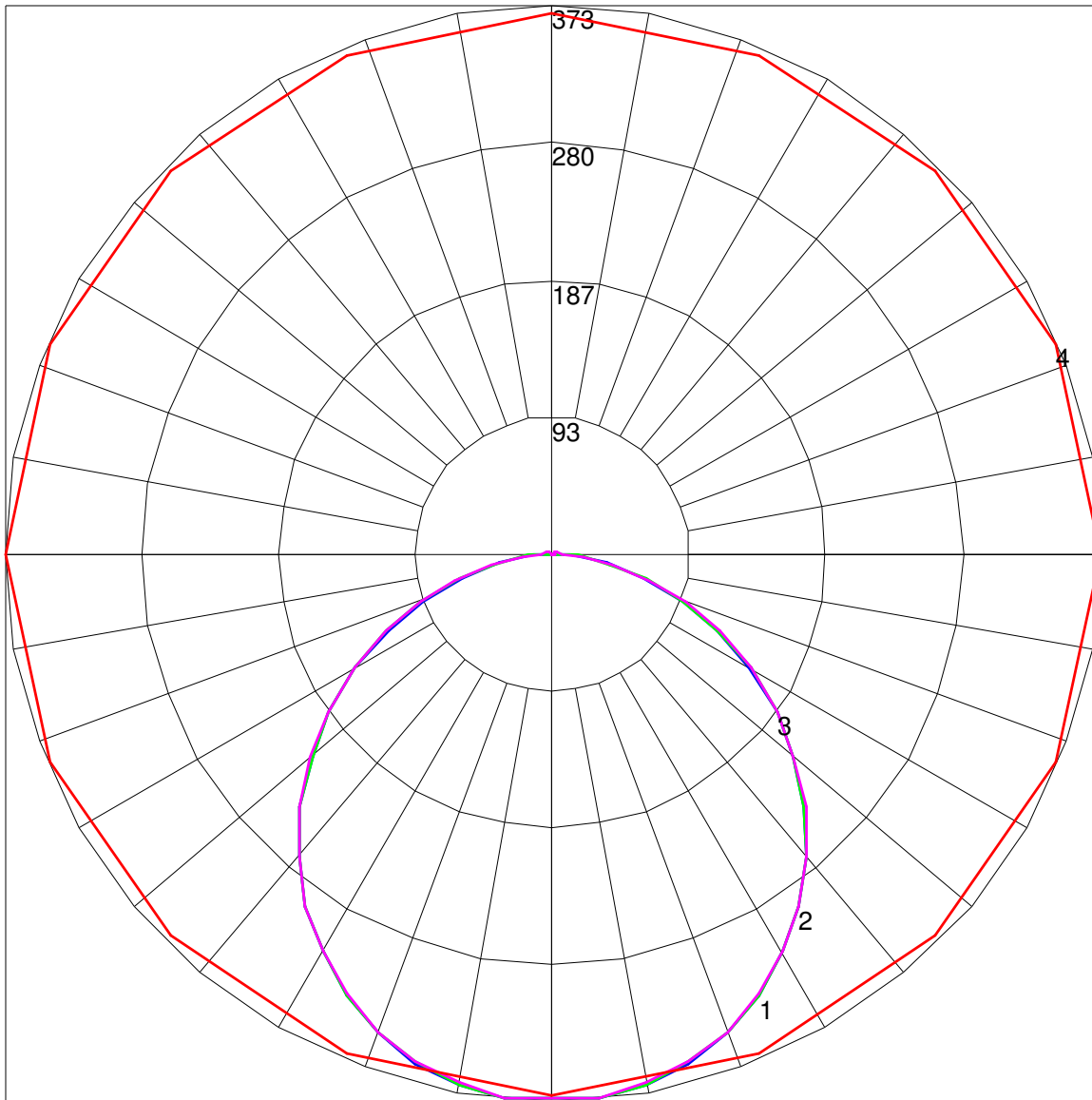
Reflectances

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	16.7	18.3	17.1	18.7	19.1	18.4	20.0	18.8	20.4	20.8
	3H	18.2	19.6	18.6	20.0	20.5	20.7	22.1	21.1	22.6	23.0
	4H	18.6	20.0	19.1	20.4	20.9	21.8	23.2	22.3	23.6	24.1
	6H	18.9	20.2	19.4	20.7	21.1	23.0	24.2	23.4	24.7	25.2
	8H	19.0	20.2	19.5	20.7	21.2	23.6	24.8	24.1	25.3	25.7
	12H	19.0	20.2	19.5	20.6	21.2	24.2	25.4	24.7	25.8	26.4
4H	2H	17.5	18.9	17.9	19.3	19.7	18.8	20.2	19.3	20.6	21.1
	3H	19.2	20.3	19.6	20.8	21.3	21.3	22.5	21.8	23.0	23.5
	4H	19.7	20.8	20.2	21.3	21.8	22.6	23.7	23.1	24.1	24.7
	6H	20.1	21.1	20.7	21.6	22.1	23.9	24.9	24.5	25.4	25.9
	8H	20.2	21.1	20.8	21.6	22.2	24.6	25.5	25.1	26.0	26.6
	12H	20.3	21.1	20.8	21.6	22.2	25.4	26.2	25.9	26.7	27.3
8H	4H	20.3	21.2	20.8	21.7	22.2	22.8	23.7	23.3	24.2	24.7
	6H	20.8	21.6	21.4	22.1	22.7	24.3	25.0	24.8	25.6	26.1
	8H	21.0	21.7	21.5	22.2	22.8	25.1	25.8	25.6	26.3	26.9
	12H	21.1	21.7	21.7	22.2	22.9	26.0	26.6	26.6	27.2	27.8
12H	4H	20.4	21.2	21.0	21.8	22.3	22.8	23.6	23.3	24.1	24.7
	6H	21.0	21.7	21.6	22.3	22.9	24.3	25.0	24.9	25.5	26.1
	8H	21.3	21.9	21.9	22.4	23.1	25.2	25.8	25.7	26.3	27.0

Maximum UGR = 27.8

POLAR GRAPH



Maximum Candela = 373.125 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.)