



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : SL-6-L5-827-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] 72 INCH LED SLIMLINE ARCHITECTURAL LUMINAIRE  
[MORE] 1.5" ALUM CHANNEL w/1"WIDE WHITE RADIAL ACRYLIC LENS  
[MORE] 0-10V REMOTE DRIVER ENCLOSURE  
[LUMCAT] SL-6-L5-827-RD-DIM-UNV  
[LAMPCAT] 22 INCH LED ARRAY

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3015
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	112
Total Luminaire Watts	26.8
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)	6.00 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	12473	10036	9525
55	11792	8985	8592
65	10524	7730	7646
75	8865	6371	6805
85	4927	5296	6128

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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	949.310	949.310	949.310	949.310	949.310
5	952.417	947.756	941.542	939.988	941.542
10	938.434	933.773	927.558	927.558	930.666
15	918.236	913.575	907.360	908.914	908.914
20	887.162	882.501	874.733	880.947	882.501
25	848.320	843.659	842.105	846.766	849.873
30	800.155	800.155	800.155	806.370	804.816
35	748.883	748.883	748.883	755.098	759.759
40	686.735	688.289	689.842	700.718	706.933
45	619.926	624.587	629.248	641.678	646.339
50	546.902	551.563	562.439	581.083	590.406
55	476.986	478.539	498.737	514.274	528.258
60	396.193	403.962	431.928	461.449	470.771
65	315.401	327.830	360.458	393.086	407.069
70	240.823	253.253	293.649	334.045	346.475
75	164.692	186.444	231.501	276.558	295.203
80	96.329	119.635	180.229	225.286	245.484
85	32.628	76.131	132.064	177.122	197.320
90	0.000	41.950	97.883	138.279	153.816
95	0.000	21.752	66.809	107.205	121.189
100	0.000	10.876	46.611	79.239	93.222
105	0.000	6.215	32.628	57.487	69.916
110	0.000	4.661	21.752	41.950	49.718
115	0.000	3.107	13.983	29.520	37.289
120	0.000	0.000	7.768	18.644	23.305
125	0.000	0.000	6.215	12.430	15.537
130	0.000	0.000	0.000	7.768	9.322
135	0.000	0.000	0.000	0.000	6.215
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	346.61	N.A.	11.50
0-30	736.17	N.A.	24.40
0-40	1206.23	N.A.	40.00
0-60	2140.56	N.A.	71.00
0-80	2744.67	N.A.	91.00
0-90	2884.48	N.A.	95.70
10-90	2794.78	N.A.	92.70
20-40	859.62	N.A.	28.50
20-50	1347.24	N.A.	44.70
40-70	1292.88	N.A.	42.90
60-80	604.10	N.A.	20.00
70-80	245.56	N.A.	8.10
80-90	139.82	N.A.	4.60
90-110	107.44	N.A.	3.60
90-120	123.75	N.A.	4.10
90-130	129.58	N.A.	4.30
90-150	130.51	N.A.	4.30
90-180	130.51	N.A.	4.30
110-180	23.08	N.A.	0.80
0-180	3015.00	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	89.71
10-20	256.90
20-30	389.56
30-40	470.06
40-50	487.63
50-60	446.71
60-70	358.54
70-80	245.56
80-90	139.82
90-100	71.72
100-110	35.72
110-120	16.31
120-130	5.84
130-140	0.93
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	18.5	20.1	18.9	20.5	20.9	UGR Viewed Endwise			
	3H	20.0	21.4	20.4	21.8	22.3	20.2	21.8	20.6	22.2
	4H	20.4	21.8	20.9	22.2	22.7	22.5	24.0	22.9	24.4
	6H	20.7	22.0	21.2	22.4	22.9	23.6	25.0	24.1	25.4
	8H	20.8	22.0	21.3	22.5	23.0	24.8	26.1	25.3	26.5
	12H	20.8	22.0	21.3	22.4	23.0	25.4	26.6	25.9	27.1
							26.1	27.2	26.5	27.7

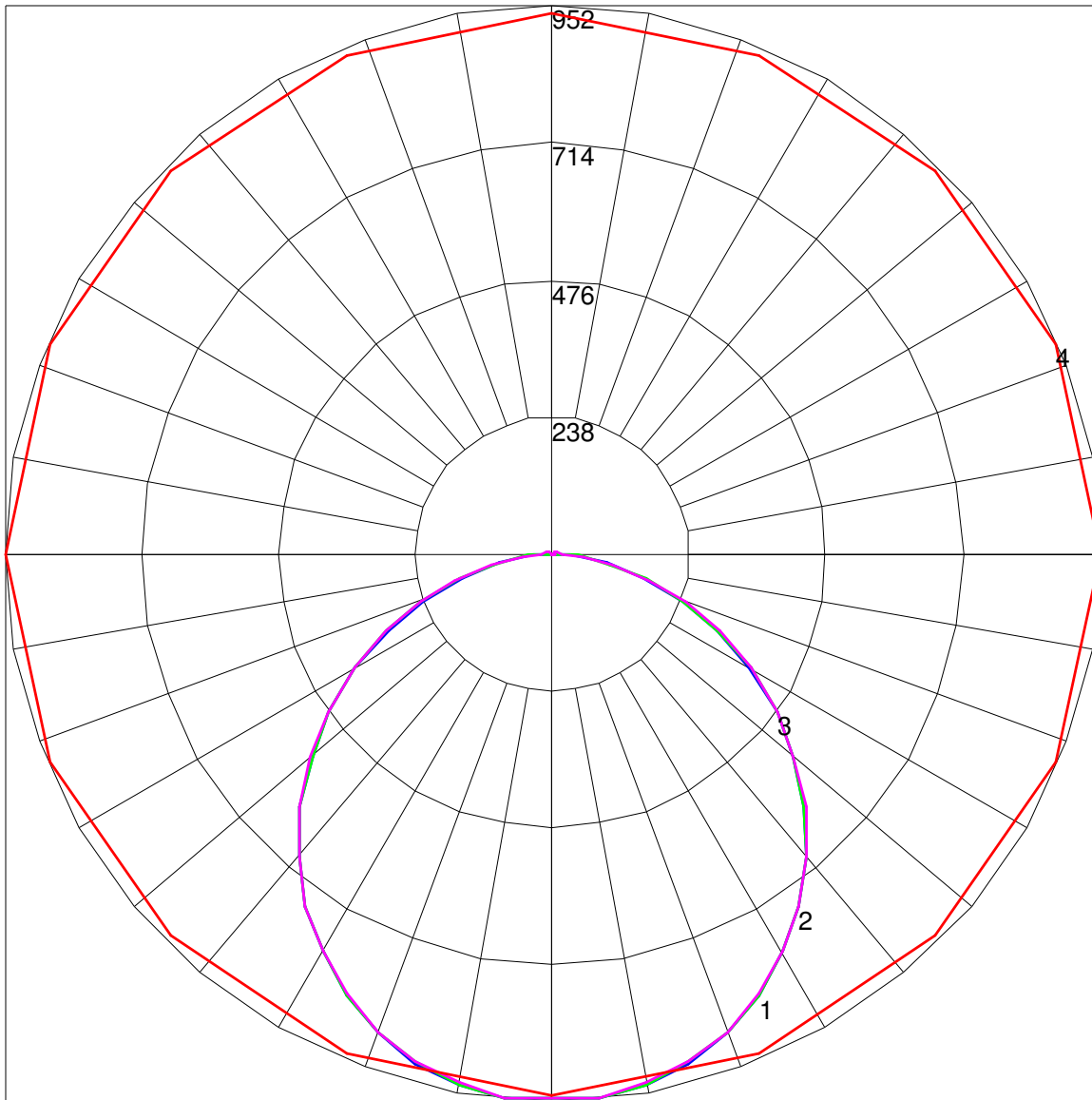
4H	2H	19.3	20.6	19.7	21.1	21.5	20.6	22.0	21.1	22.4
	3H	21.0	22.1	21.4	22.6	23.1	23.1	24.3	23.6	24.8
	4H	21.5	22.6	22.0	23.1	23.6	24.4	25.5	24.9	26.0
	6H	21.9	22.9	22.5	23.4	23.9	25.8	26.7	26.3	27.2
	8H	22.0	22.9	22.5	23.4	24.0	26.5	27.3	27.0	27.9
	12H	22.1	22.9	22.6	23.4	24.0	27.2	28.0	27.8	28.6

8H	4H	22.1	23.0	22.6	23.5	24.0	24.6	25.5	25.1	26.0
	6H	22.6	23.4	23.2	23.9	24.5	26.1	26.8	26.6	27.4
	8H	22.8	23.5	23.3	24.0	24.6	26.9	27.6	27.5	28.2
	12H	22.9	23.5	23.5	24.0	24.7	27.9	28.5	28.4	29.0

12H	4H	22.2	23.0	22.8	23.6	24.1	24.6	25.4	25.2	26.0
	6H	22.8	23.5	23.4	24.1	24.7	26.1	26.8	26.7	27.3
	8H	23.1	23.7	23.7	24.2	24.9	27.0	27.6	27.6	28.2

Maximum UGR = 29.7

POLAR GRAPH



Maximum Candela = 952.417 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.)