



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : SL-8-L5-927-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  
[ISSUE DATE] 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-L5-927-RD-DIM-UNV  
[LAMPCAT] 22 INCH LED ARRAY

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3234
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	92
Total Luminaire Watts	35.2
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	10055	8083	7664
55	9514	7239	6913
65	8503	6231	6152
75	7183	5139	5475
85	4047	4278	4930

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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	1018.396	1018.396	1018.396	1018.396	1018.396
5	1021.730	1016.730	1010.063	1008.396	1010.063
10	1006.729	1001.729	995.062	995.062	998.395
15	985.061	980.061	973.394	975.060	975.060
20	951.726	946.725	938.391	945.059	946.725
25	910.056	905.056	903.389	908.390	911.723
30	858.387	858.387	858.387	865.054	863.387
35	803.383	803.383	803.383	810.050	815.051
40	736.712	738.379	740.046	751.713	758.380
45	665.041	670.042	675.042	688.376	693.376
50	586.703	591.703	603.371	623.372	633.373
55	511.698	513.365	535.033	551.701	566.702
60	425.026	433.360	463.362	495.031	505.031
65	338.354	351.688	386.691	421.693	436.694
70	258.349	271.684	315.020	358.356	371.690
75	176.678	200.012	248.349	296.685	316.686
80	103.340	128.341	193.345	241.682	263.350
85	35.002	81.672	141.675	190.012	211.680
90	0.000	45.003	105.007	148.343	165.010
95	0.000	23.335	71.671	115.007	130.008
100	0.000	11.667	50.003	85.005	100.006
105	0.000	6.667	35.002	61.670	75.005
110	0.000	5.000	23.335	45.003	53.337
115	0.000	3.334	15.001	31.669	40.002
120	0.000	0.000	8.334	20.001	25.002
125	0.000	0.000	6.667	13.334	16.668
130	0.000	0.000	0.000	8.334	10.001
135	0.000	0.000	0.000	0.000	6.667
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	371.83	N.A.	11.50
0-30	789.74	N.A.	24.40
0-40	1294.01	N.A.	40.00
0-60	2296.34	N.A.	71.00
0-80	2944.41	N.A.	91.00
0-90	3094.4	N.A.	95.70
10-90	2998.17	N.A.	92.70
20-40	922.18	N.A.	28.50
20-50	1445.29	N.A.	44.70
40-70	1386.97	N.A.	42.90
60-80	648.07	N.A.	20.00
70-80	263.44	N.A.	8.10
80-90	149.99	N.A.	4.60
90-110	115.25	N.A.	3.60
90-120	132.75	N.A.	4.10
90-130	139.02	N.A.	4.30
90-150	140.01	N.A.	4.30
90-180	140.01	N.A.	4.30
110-180	24.76	N.A.	0.80
0-180	3234.42	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	96.24
10-20	275.60
20-30	417.91
30-40	504.27
40-50	523.12
50-60	479.22
60-70	384.63
70-80	263.44
80-90	149.99
90-100	76.94
100-110	38.32
110-120	17.50
120-130	6.26
130-140	1.00
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	17.8	19.4	18.2	19.8	20.2	19.5	21.1	19.9	21.5	21.9
	3H	19.3	20.7	19.7	21.1	21.6	21.8	23.3	22.3	23.7	24.1
	4H	19.7	21.1	20.2	21.5	22.0	22.9	24.3	23.4	24.7	25.2
	6H	20.0	21.3	20.5	21.7	22.2	24.1	25.4	24.6	25.8	26.3
	8H	20.1	21.3	20.6	21.8	22.3	24.7	25.9	25.2	26.4	26.9
	12H	20.1	21.3	20.6	21.7	22.3	25.4	26.6	25.9	27.0	27.5

UGR Viewed Endwise

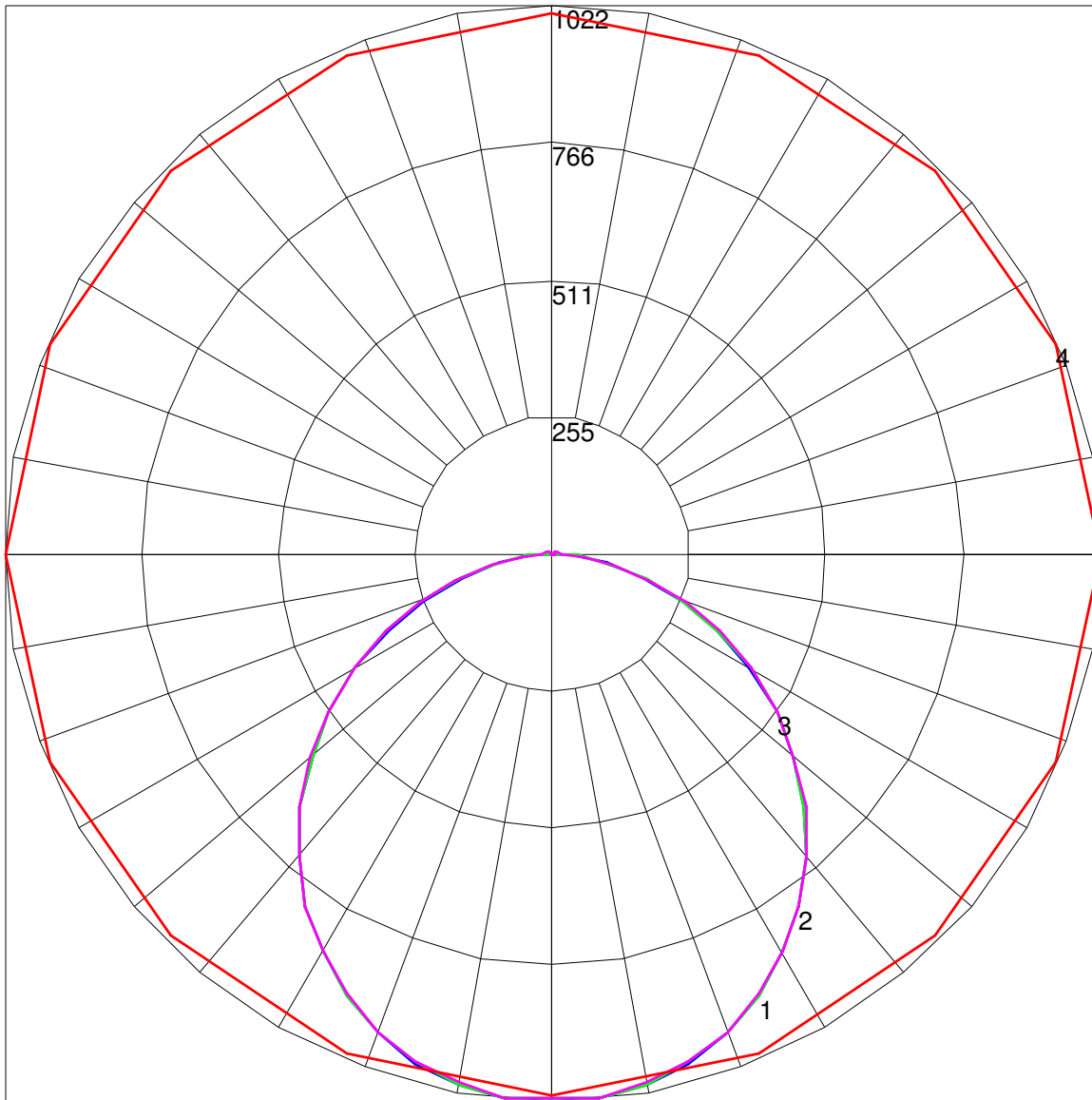
4H	2H	18.6	20.0	19.0	20.4	20.9	19.9	21.3	20.4	21.7	22.2
	3H	20.3	21.4	20.7	21.9	22.4	22.5	23.6	22.9	24.1	24.6
	4H	20.8	21.9	21.3	22.4	22.9	23.7	24.8	24.2	25.3	25.8
	6H	21.2	22.2	21.8	22.7	23.2	25.1	26.0	25.6	26.5	27.1
	8H	21.3	22.2	21.9	22.7	23.3	25.8	26.7	26.3	27.2	27.7
	12H	21.4	22.2	21.9	22.7	23.3	26.6	27.4	27.1	27.9	28.5

8H	4H	21.4	22.3	21.9	22.8	23.3	23.9	24.8	24.4	25.3	25.9
	6H	21.9	22.7	22.5	23.2	23.8	25.4	26.2	25.9	26.7	27.3
	8H	22.1	22.8	22.6	23.3	23.9	26.2	26.9	26.8	27.5	28.1
	12H	22.2	22.8	22.8	23.4	24.0	27.2	27.8	27.8	28.3	29.0

12H	4H	21.5	22.3	22.1	22.9	23.4	23.9	24.7	24.5	25.3	25.8
	6H	22.2	22.8	22.7	23.4	24.0	25.4	26.1	26.0	26.7	27.3
	8H	22.4	23.0	23.0	23.5	24.2	26.3	26.9	26.9	27.5	28.1

Maximum UGR = 29.0

POLAR GRAPH



Maximum Candela = 1021.73 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.)