



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : SL-6-L10-950-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-L10-950-RD-DIM-UNV  
[LAMPCAT] 22 INCH LED ARRAY

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5389
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	99
Total Luminaire Watts	54.6
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	22292	17936	17023
55	21075	16058	15356
65	18809	13816	13665
75	15843	11387	12162
85	8805	9466	10951

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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	1696.647	1696.647	1696.647	1696.647	1696.647
5	1702.201	1693.871	1682.763	1679.986	1682.763
10	1677.210	1668.879	1657.772	1657.772	1663.325
15	1641.111	1632.780	1621.673	1624.450	1624.450
20	1585.574	1577.243	1563.359	1574.467	1577.243
25	1516.153	1507.823	1505.046	1513.376	1518.930
30	1430.071	1430.071	1430.071	1441.178	1438.402
35	1338.435	1338.435	1338.435	1349.543	1357.873
40	1227.362	1230.139	1232.916	1252.354	1263.461
45	1107.958	1116.289	1124.619	1146.834	1155.164
50	977.447	985.777	1005.215	1038.537	1055.198
55	852.489	855.266	891.365	919.133	944.125
60	708.093	721.978	771.961	824.721	841.382
65	563.698	585.913	644.226	702.540	727.531
70	430.410	452.624	524.822	597.020	619.235
75	294.345	333.220	413.749	494.277	527.599
80	172.164	213.816	322.113	402.641	438.740
85	58.314	136.065	236.031	316.559	352.658
90	0.000	74.975	174.941	247.139	274.907
95	0.000	38.876	119.404	191.602	216.593
100	0.000	19.438	83.305	141.619	166.610
105	0.000	11.107	58.314	102.743	124.958
110	0.000	8.331	38.876	74.975	88.859
115	0.000	5.554	24.992	52.760	66.644
120	0.000	0.000	13.884	33.322	41.653
125	0.000	0.000	11.107	22.215	27.768
130	0.000	0.000	0.000	13.884	16.661
135	0.000	0.000	0.000	0.000	11.107
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	619.48	N.A.	11.50
0-30	1315.71	N.A.	24.40
0-40	2155.82	N.A.	40.00
0-60	3825.71	N.A.	71.00
0-80	4905.39	N.A.	91.00
0-90	5155.27	N.A.	95.70
10-90	4994.95	N.A.	92.70
20-40	1536.34	N.A.	28.50
20-50	2407.85	N.A.	44.70
40-70	2310.68	N.A.	42.90
60-80	1079.68	N.A.	20.00
70-80	438.88	N.A.	8.10
80-90	249.89	N.A.	4.60
90-110	192.01	N.A.	3.60
90-120	221.17	N.A.	4.10
90-130	231.60	N.A.	4.30
90-150	233.26	N.A.	4.30
90-180	233.26	N.A.	4.30
110-180	41.24	N.A.	0.80
0-180	5388.53	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	160.33
10-20	459.15
20-30	696.24
30-40	840.11
40-50	871.51
50-60	798.38
60-70	640.80
70-80	438.88
80-90	249.89
90-100	128.18
100-110	63.83
110-120	29.15
120-130	10.43
130-140	1.66
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	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	30	24	36	29	24	35	28	24	33	28	23	22

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**UGR TABLE - CORRECTED**

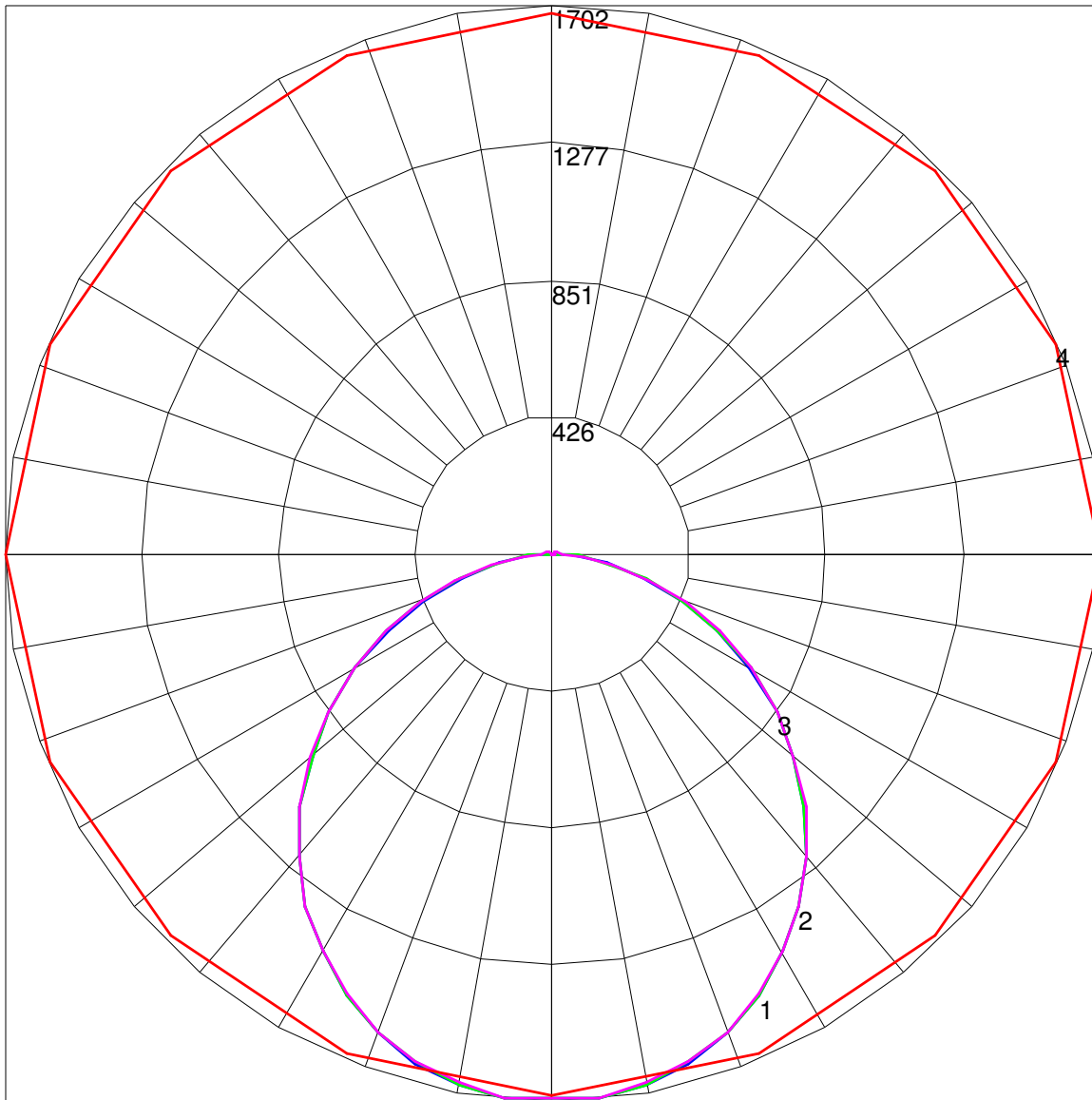
Reflectances

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	20.6	22.2	21.0	22.6	23.0	22.3	23.9	22.7	24.3	24.7
	3H	22.1	23.5	22.5	23.9	24.4	24.6	26.1	25.0	26.5	26.9
	4H	22.5	23.9	23.0	24.3	24.8	25.7	27.1	26.2	27.5	28.0
	6H	22.8	24.1	23.3	24.5	25.0	26.9	28.2	27.4	28.6	29.1
	8H	22.9	24.1	23.4	24.6	25.1	27.5	28.7	28.0	29.2	29.7
	12H	22.9	24.1	23.4	24.5	25.1	28.2	29.3	28.6	29.8	30.3
4H	2H	21.4	22.7	21.8	23.2	23.6	22.7	24.1	23.2	24.5	25.0
	3H	23.1	24.2	23.5	24.7	25.2	25.2	26.4	25.7	26.9	27.4
	4H	23.6	24.7	24.1	25.2	25.7	26.5	27.6	27.0	28.1	28.6
	6H	24.0	25.0	24.5	25.5	26.0	27.9	28.8	28.4	29.3	29.9
	8H	24.1	25.0	24.6	25.5	26.1	28.6	29.4	29.1	29.9	30.5
	12H	24.2	25.0	24.7	25.5	26.1	29.3	30.1	29.9	30.7	31.2
8H	4H	24.2	25.1	24.7	25.6	26.1	26.7	27.6	27.2	28.1	28.7
	6H	24.7	25.5	25.3	26.0	26.6	28.2	28.9	28.7	29.5	30.1
	8H	24.9	25.6	25.4	26.1	26.7	29.0	29.7	29.6	30.3	30.8
	12H	25.0	25.6	25.6	26.1	26.8	30.0	30.6	30.5	31.1	31.8
12H	4H	24.3	25.1	24.9	25.7	26.2	26.7	27.5	27.3	28.1	28.6
	6H	24.9	25.6	25.5	26.2	26.8	28.2	28.9	28.8	29.4	30.1
	8H	25.2	25.8	25.8	26.3	27.0	29.1	29.7	29.7	30.3	30.9

Maximum UGR = 31.8

POLAR GRAPH



Maximum Candela = 1702.201 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.)