



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : SL-8-L5-950-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] 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-L5-950-RD-DIM-UNV  
[LAMPCAT] 22 INCH LED ARRAY

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3598
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	102
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	11186	8993	8526
55	10584	8054	7691
65	9459	6932	6844
75	7992	5718	6091
85	4502	4759	5485

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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	1132.966	1132.966	1132.966	1132.966	1132.966
5	1136.674	1131.111	1123.694	1121.840	1123.694
10	1119.986	1114.423	1107.006	1107.006	1110.714
15	1095.880	1090.317	1082.900	1084.754	1084.754
20	1058.794	1053.232	1043.960	1051.377	1053.232
25	1012.437	1006.875	1005.020	1010.583	1014.292
30	954.955	954.955	954.955	962.372	960.518
35	893.763	893.763	893.763	901.181	906.743
40	819.592	821.446	823.301	836.281	843.698
45	739.858	745.421	750.984	765.818	771.381
50	652.707	658.270	671.250	693.501	704.627
55	569.264	571.119	595.224	613.767	630.456
60	472.842	482.113	515.490	550.721	561.847
65	376.419	391.253	430.193	469.133	485.822
70	287.414	302.248	350.459	398.670	413.505
75	196.554	222.514	276.288	330.062	352.313
80	114.965	142.780	215.097	268.871	292.976
85	38.940	90.860	157.614	211.388	235.494
90	0.000	50.066	116.820	165.031	183.574
95	0.000	25.960	79.734	127.945	144.634
100	0.000	12.980	55.628	94.568	111.257
105	0.000	7.417	38.940	68.608	83.443
110	0.000	5.563	25.960	50.066	59.337
115	0.000	3.709	16.689	35.231	44.503
120	0.000	0.000	9.271	22.251	27.814
125	0.000	0.000	7.417	14.834	18.543
130	0.000	0.000	0.000	9.271	11.126
135	0.000	0.000	0.000	0.000	7.417
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	413.67	N.A.	11.50
0-30	878.59	N.A.	24.40
0-40	1439.59	N.A.	40.00
0-60	2554.68	N.A.	71.00
0-80	3275.66	N.A.	91.00
0-90	3442.52	N.A.	95.70
10-90	3335.46	N.A.	92.70
20-40	1025.92	N.A.	28.50
20-50	1607.89	N.A.	44.70
40-70	1543.00	N.A.	42.90
60-80	720.98	N.A.	20.00
70-80	293.07	N.A.	8.10
80-90	166.87	N.A.	4.60
90-110	128.22	N.A.	3.60
90-120	147.69	N.A.	4.10
90-130	154.65	N.A.	4.30
90-150	155.76	N.A.	4.30
90-180	155.76	N.A.	4.30
110-180	27.54	N.A.	0.80
0-180	3598.29	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	107.06
10-20	306.60
20-30	464.92
30-40	561.00
40-50	581.97
50-60	533.13
60-70	427.90
70-80	293.07
80-90	166.87
90-100	85.59
100-110	42.63
110-120	19.47
120-130	6.97
130-140	1.11
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	18.1	19.7	18.5	20.1	20.5	19.8	21.4	20.2	21.8	22.2
	3H	19.6	21.0	20.0	21.4	21.9	22.1	23.6	22.6	24.0	24.4
	4H	20.0	21.4	20.5	21.8	22.3	23.2	24.6	23.7	25.0	25.5
	6H	20.3	21.6	20.8	22.0	22.5	24.4	25.7	24.9	26.1	26.6
	8H	20.4	21.6	20.9	22.1	22.6	25.0	26.2	25.5	26.7	27.2
	12H	20.4	21.6	20.9	22.0	22.6	25.7	26.9	26.2	27.3	27.8

UGR Viewed Endwise

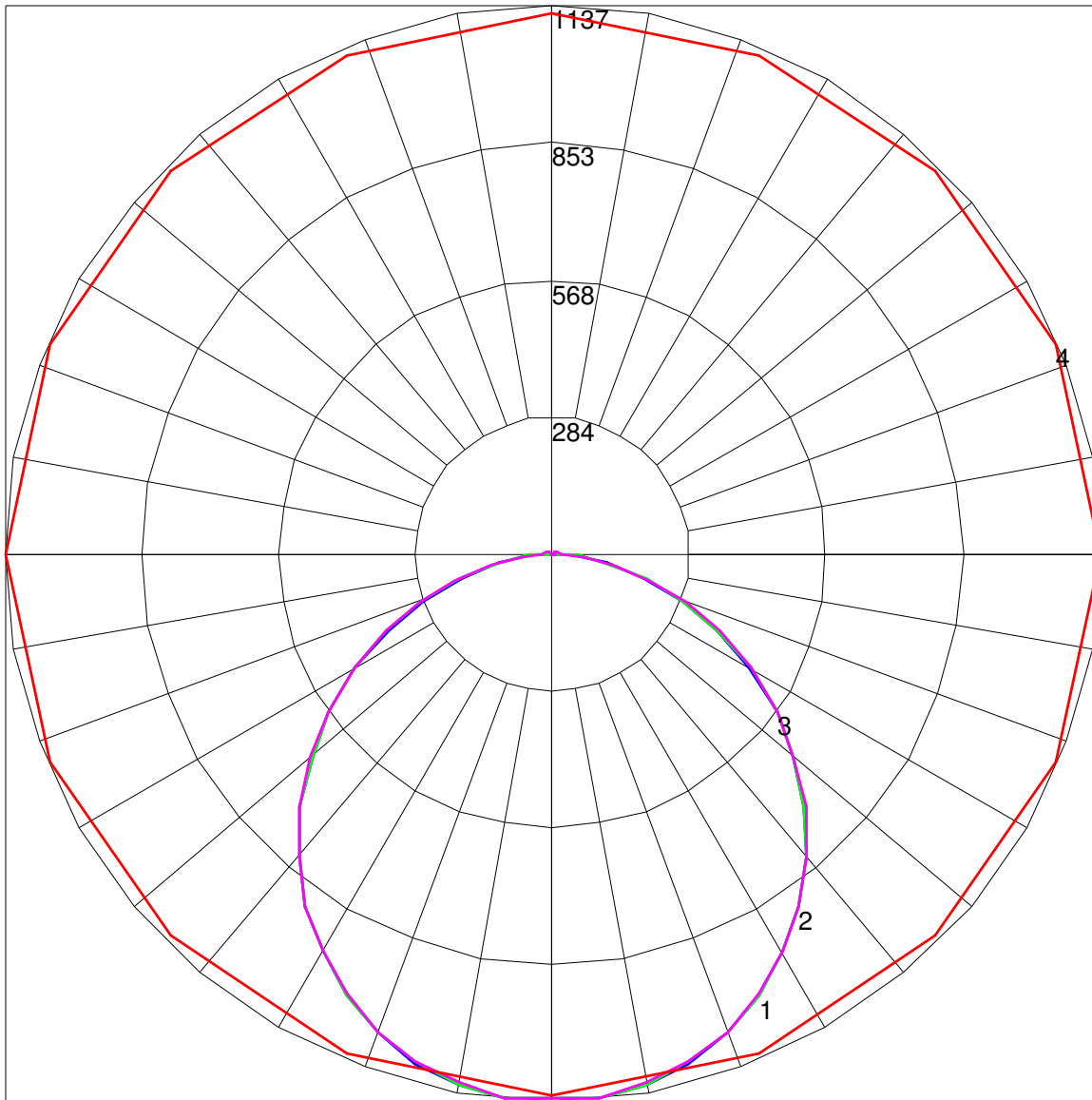
4H	2H	18.9	20.3	19.3	20.7	21.2	20.2	21.6	20.7	22.0	22.5
	3H	20.6	21.7	21.0	22.2	22.7	22.8	23.9	23.2	24.4	24.9
	4H	21.1	22.2	21.6	22.7	23.2	24.0	25.1	24.5	25.6	26.1
	6H	21.5	22.5	22.1	23.0	23.5	25.4	26.3	25.9	26.8	27.4
	8H	21.6	22.5	22.2	23.0	23.6	26.1	27.0	26.6	27.5	28.0
	12H	21.7	22.5	22.2	23.0	23.6	26.9	27.7	27.4	28.2	28.8

8H	4H	21.7	22.6	22.2	23.1	23.6	24.2	25.1	24.7	25.6	26.2
	6H	22.2	23.0	22.8	23.5	24.1	25.7	26.5	26.2	27.0	27.6
	8H	22.4	23.1	22.9	23.6	24.2	26.5	27.2	27.1	27.8	28.4
	12H	22.5	23.1	23.1	23.7	24.3	27.5	28.1	28.1	28.6	29.3

12H	4H	21.8	22.6	22.4	23.2	23.7	24.2	25.0	24.8	25.6	26.1
	6H	22.5	23.1	23.0	23.7	24.3	25.7	26.4	26.3	27.0	27.6
	8H	22.7	23.3	23.3	23.8	24.5	26.6	27.2	27.2	27.8	28.4

Maximum UGR = 29.3

POLAR GRAPH



Maximum Candela = 1136.674 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.)