



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : SL-2-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] 24 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-2-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	900
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	96
Total Luminaire Watts	9.4
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)	2.00 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	10994	8905	8526
55	10326	7952	7691
65	9119	6817	6844
75	7508	5588	6091
85	3787	4599	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>
<b>0</b>	283.241	283.241	283.241	283.241	283.241
<b>5</b>	284.169	282.778	280.924	280.460	280.924
<b>10</b>	279.996	278.606	276.751	276.751	277.679
<b>15</b>	273.970	272.579	270.725	271.189	271.189
<b>20</b>	264.699	263.308	260.990	262.844	263.308
<b>25</b>	253.109	251.719	251.255	252.646	253.573
<b>30</b>	238.739	238.739	238.739	240.593	240.129
<b>35</b>	223.441	223.441	223.441	225.295	226.686
<b>40</b>	204.898	205.362	205.825	209.070	210.924
<b>45</b>	184.965	186.355	187.746	191.455	192.845
<b>50</b>	163.177	164.567	167.812	173.375	176.157
<b>55</b>	142.316	142.780	148.806	153.442	157.614
<b>60</b>	118.210	120.528	128.873	137.680	140.462
<b>65</b>	94.105	97.813	107.548	117.283	121.455
<b>70</b>	71.853	75.562	87.615	99.668	103.376
<b>75</b>	49.138	55.628	69.072	82.516	88.078
<b>80</b>	28.741	35.695	53.774	67.218	73.244
<b>85</b>	9.735	22.715	39.403	52.847	58.873
<b>90</b>	0.000	12.516	29.205	41.258	45.893
<b>95</b>	0.000	6.490	19.934	31.986	36.158
<b>100</b>	0.000	3.245	13.907	23.642	27.814
<b>105</b>	0.000	1.854	9.735	17.152	20.861
<b>110</b>	0.000	1.391	6.490	12.516	14.834
<b>115</b>	0.000	0.927	4.172	8.808	11.126
<b>120</b>	0.000	0.000	2.318	5.563	6.954
<b>125</b>	0.000	0.000	1.854	3.709	4.636
<b>130</b>	0.000	0.000	0.000	2.318	2.781
<b>135</b>	0.000	0.000	0.000	0.000	1.854
<b>140</b>	0.000	0.000	0.000	0.000	0.000
<b>145</b>	0.000	0.000	0.000	0.000	0.000
<b>150</b>	0.000	0.000	0.000	0.000	0.000
<b>155</b>	0.000	0.000	0.000	0.000	0.000
<b>160</b>	0.000	0.000	0.000	0.000	0.000
<b>165</b>	0.000	0.000	0.000	0.000	0.000
<b>170</b>	0.000	0.000	0.000	0.000	0.000
<b>175</b>	0.000	0.000	0.000	0.000	0.000
<b>180</b>	0.000	0.000	0.000	0.000	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	103.42	N.A.	11.50
0-30	219.65	N.A.	24.40
0-40	359.90	N.A.	40.00
0-60	638.67	N.A.	71.00
0-80	818.91	N.A.	91.00
0-90	860.63	N.A.	95.70
10-90	833.87	N.A.	92.70
20-40	256.48	N.A.	28.50
20-50	401.97	N.A.	44.70
40-70	385.75	N.A.	42.90
60-80	180.24	N.A.	20.00
70-80	73.27	N.A.	8.10
80-90	41.72	N.A.	4.60
90-110	32.06	N.A.	3.60
90-120	36.92	N.A.	4.10
90-130	38.66	N.A.	4.30
90-150	38.94	N.A.	4.30
90-180	38.94	N.A.	4.30
110-180	6.89	N.A.	0.80
0-180	899.57	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	26.77
10-20	76.65
20-30	116.23
30-40	140.25
40-50	145.49
50-60	133.28
60-70	106.98
70-80	73.27
80-90	41.72
90-100	21.40
100-110	10.66
110-120	4.87
120-130	1.74
130-140	0.28
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	88	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	74	67	60	71	64	59	67	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	73	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	37	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	24	50	37	29	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	19.7	21.3	20.2	21.7	22.1
	3H	19.6	21.0	20.0	21.4	21.9	22.0	23.5	22.5	23.9	24.3
	4H	20.0	21.4	20.5	21.8	22.3	23.1	24.5	23.6	24.9	25.4
	6H	20.3	21.6	20.8	22.0	22.5	24.3	25.5	24.7	26.0	26.5
	8H	20.4	21.6	20.9	22.1	22.6	24.8	26.1	25.3	26.5	27.0
	12H	20.4	21.6	20.9	22.0	22.6	25.5	26.6	26.0	27.1	27.6

UGR Viewed Endwise

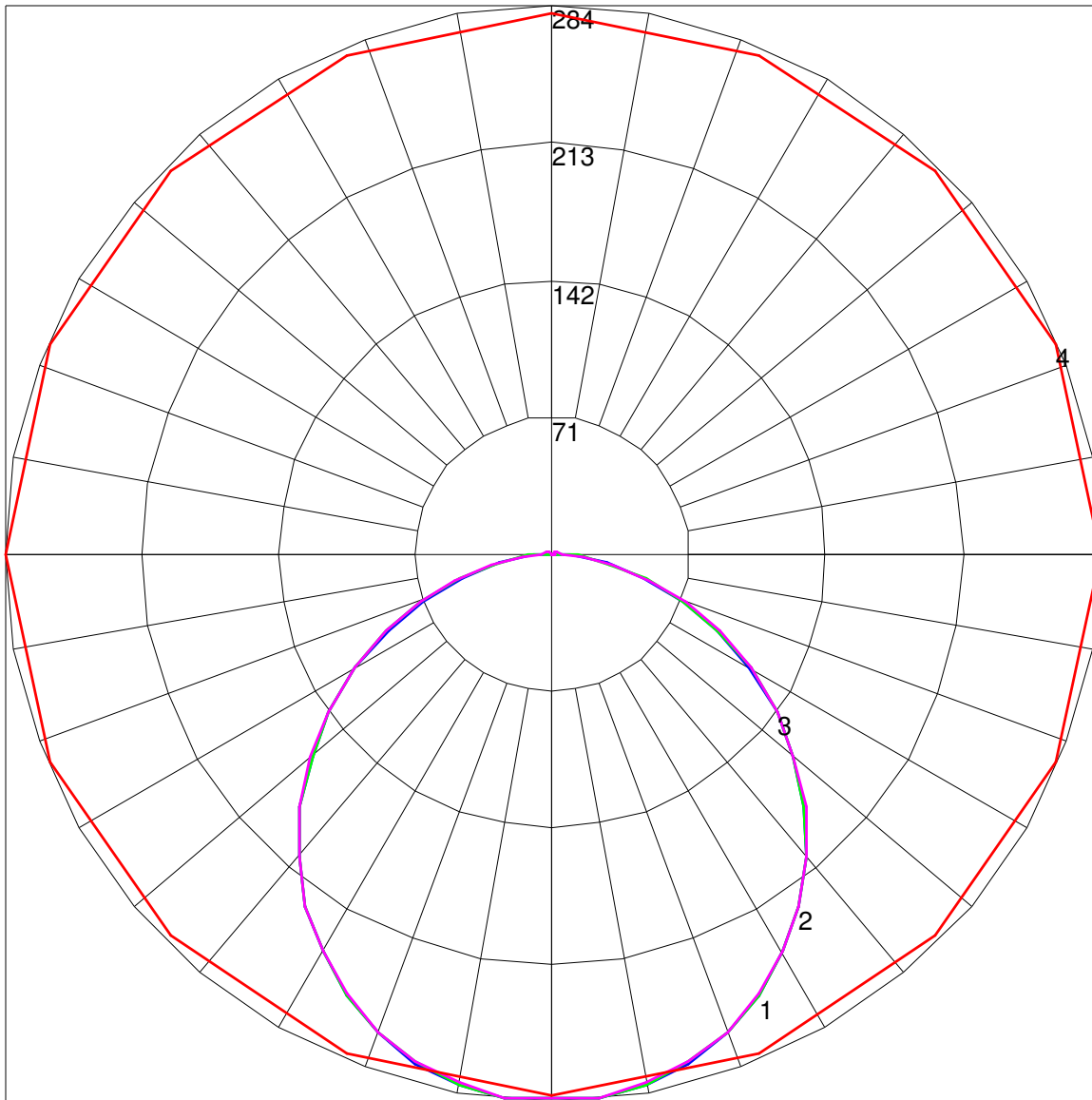
4H	2H	18.9	20.2	19.3	20.7	21.1	20.2	21.5	20.6	22.0	22.4
	3H	20.5	21.7	21.0	22.2	22.7	22.7	23.8	23.1	24.3	24.8
	4H	21.1	22.2	21.6	22.7	23.2	23.9	25.0	24.4	25.5	26.0
	6H	21.5	22.5	22.0	23.0	23.5	25.2	26.2	25.7	26.7	27.2
	8H	21.6	22.5	22.1	23.0	23.6	25.9	26.8	26.4	27.3	27.9
	12H	21.7	22.5	22.2	23.0	23.6	26.6	27.4	27.2	28.0	28.6

8H	4H	21.7	22.6	22.2	23.1	23.6	24.1	25.0	24.6	25.5	26.1
	6H	22.2	22.9	22.7	23.5	24.1	25.6	26.3	26.1	26.9	27.4
	8H	22.4	23.0	22.9	23.6	24.2	26.4	27.0	26.9	27.6	28.2
	12H	22.5	23.1	23.0	23.6	24.3	27.3	27.9	27.8	28.4	29.1

12H	4H	21.8	22.6	22.4	23.2	23.7	24.1	24.9	24.7	25.5	26.0
	6H	22.4	23.1	23.0	23.6	24.3	25.6	26.3	26.2	26.8	27.4
	8H	22.7	23.3	23.2	23.8	24.5	26.5	27.1	27.0	27.6	28.3

Maximum UGR = 29.1

POLAR GRAPH



Maximum Candela = 284.169 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.)