



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : SL-6-L3-940-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-L3-940-RD-DIM-UNV  
[LAMPCAT] 22 INCH LED ARRAY

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1583
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	97
Total Luminaire Watts	16.4
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)	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	6548	5269	5001
55	6191	4717	4511
65	5525	4058	4014
75	4654	3345	3573
85	2587	2781	3217

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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>	498.388	498.388	498.388	498.388	498.388
<b>5</b>	500.020	497.573	494.310	493.494	494.310
<b>10</b>	492.679	490.232	486.969	486.969	488.600
<b>15</b>	482.075	479.627	476.365	477.180	477.180
<b>20</b>	465.761	463.314	459.235	462.498	463.314
<b>25</b>	445.368	442.921	442.106	444.553	446.184
<b>30</b>	420.082	420.082	420.082	423.345	422.529
<b>35</b>	393.164	393.164	393.164	396.427	398.874
<b>40</b>	360.536	361.352	362.168	367.878	371.140
<b>45</b>	325.462	327.909	330.356	336.881	339.328
<b>50</b>	287.124	289.571	295.281	305.069	309.963
<b>55</b>	250.418	251.233	261.837	269.994	277.336
<b>60</b>	208.002	212.080	226.763	242.261	247.155
<b>65</b>	165.586	172.111	189.241	206.370	213.712
<b>70</b>	126.432	132.958	154.166	175.374	181.900
<b>75</b>	86.463	97.883	121.538	145.193	154.982
<b>80</b>	50.573	62.808	94.620	118.275	128.879
<b>85</b>	17.130	39.969	69.334	92.989	103.593
<b>90</b>	0.000	22.024	51.389	72.597	80.754
<b>95</b>	0.000	11.420	35.075	56.283	63.624
<b>100</b>	0.000	5.710	24.471	41.600	48.942
<b>105</b>	0.000	3.263	17.130	30.181	36.706
<b>110</b>	0.000	2.447	11.420	22.024	26.102
<b>115</b>	0.000	1.631	7.341	15.498	19.577
<b>120</b>	0.000	0.000	4.078	9.788	12.235
<b>125</b>	0.000	0.000	3.263	6.526	8.157
<b>130</b>	0.000	0.000	0.000	4.078	4.894
<b>135</b>	0.000	0.000	0.000	0.000	3.263
<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	181.97	N.A.	11.50
0-30	386.49	N.A.	24.40
0-40	633.27	N.A.	40.00
0-60	1123.8	N.A.	71.00
0-80	1440.95	N.A.	91.00
0-90	1514.36	N.A.	95.70
10-90	1467.26	N.A.	92.70
20-40	451.30	N.A.	28.50
20-50	707.30	N.A.	44.70
40-70	678.76	N.A.	42.90
60-80	317.16	N.A.	20.00
70-80	128.92	N.A.	8.10
80-90	73.40	N.A.	4.60
90-110	56.40	N.A.	3.60
90-120	64.97	N.A.	4.10
90-130	68.03	N.A.	4.30
90-150	68.52	N.A.	4.30
90-180	68.52	N.A.	4.30
110-180	12.12	N.A.	0.80
0-180	1582.88	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	47.10
10-20	134.87
20-30	204.52
30-40	246.78
40-50	256.00
50-60	234.52
60-70	188.23
70-80	128.92
80-90	73.40
90-100	37.65
100-110	18.75
110-120	8.56
120-130	3.06
130-140	0.49
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

X=2H	Y=2H	16.3	17.9	16.7	18.3	18.7	18.0	19.6	18.4	20.0	20.4
	3H	17.8	19.2	18.2	19.6	20.1	20.3	21.8	20.7	22.2	22.6
	4H	18.2	19.6	18.7	20.0	20.5	21.4	22.8	21.9	23.2	23.7
	6H	18.5	19.8	19.0	20.2	20.7	22.6	23.9	23.1	24.3	24.8
	8H	18.6	19.8	19.1	20.3	20.8	23.2	24.4	23.7	24.9	25.4
	12H	18.6	19.8	19.1	20.2	20.8	23.9	25.0	24.3	25.5	26.0

UGR Viewed Endwise

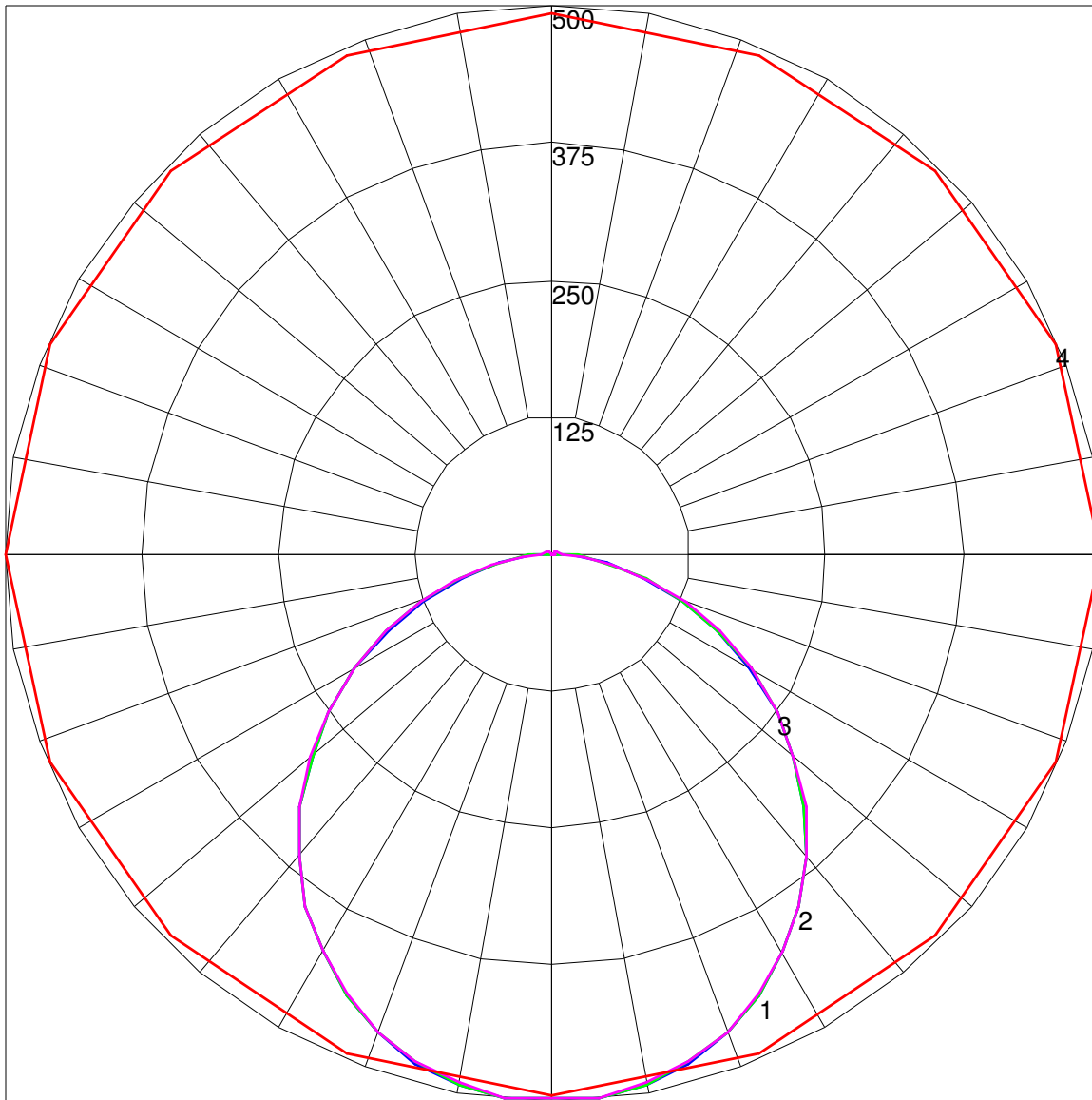
4H	2H	17.1	18.4	17.5	18.9	19.3	18.4	19.8	18.9	20.2	20.7
	3H	18.8	19.9	19.2	20.4	20.9	20.9	22.1	21.4	22.6	23.1
	4H	19.3	20.4	19.8	20.9	21.4	22.2	23.3	22.7	23.8	24.3
	6H	19.7	20.7	20.2	21.2	21.7	23.6	24.5	24.1	25.0	25.6
	8H	19.8	20.7	20.3	21.2	21.8	24.3	25.1	24.8	25.6	26.2
	12H	19.9	20.7	20.4	21.2	21.8	25.0	25.8	25.6	26.4	26.9

8H	4H	19.9	20.8	20.4	21.3	21.8	22.4	23.3	22.9	23.8	24.4
	6H	20.4	21.2	21.0	21.7	22.3	23.9	24.6	24.4	25.2	25.8
	8H	20.6	21.3	21.1	21.8	22.4	24.7	25.4	25.3	26.0	26.5
	12H	20.7	21.3	21.3	21.8	22.5	25.7	26.3	26.2	26.8	27.5

12H	4H	20.0	20.8	20.6	21.4	21.9	22.4	23.2	23.0	23.8	24.3
	6H	20.6	21.3	21.2	21.9	22.5	23.9	24.6	24.5	25.1	25.8
	8H	20.9	21.5	21.5	22.0	22.7	24.8	25.4	25.4	26.0	26.6

Maximum UGR = 27.5

POLAR GRAPH



Maximum Candela = 500.02 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.)