



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : SL-6-L3-950-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-L3-950-RD-DIM-UNV

[LAMPCAT] 22 INCH LED ARRAY

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1638
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	100
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	6777	5453	5175
55	6407	4882	4668
65	5718	4200	4154
75	4816	3462	3697
85	2677	2878	3329

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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>	515.774	515.774	515.774	515.774	515.774
<b>5</b>	517.462	514.930	511.553	510.709	511.553
<b>10</b>	509.865	507.333	503.956	503.956	505.644
<b>15</b>	498.891	496.359	492.982	493.826	493.826
<b>20</b>	482.008	479.476	475.255	478.632	479.476
<b>25</b>	460.904	458.372	457.528	460.060	461.749
<b>30</b>	434.736	434.736	434.736	438.112	437.268
<b>35</b>	406.879	406.879	406.879	410.256	412.788
<b>40</b>	373.113	373.957	374.801	380.710	384.087
<b>45</b>	336.815	339.347	341.880	348.633	351.165
<b>50</b>	297.140	299.672	305.581	315.711	320.776
<b>55</b>	259.153	259.997	270.971	279.413	287.010
<b>60</b>	215.258	219.478	234.673	250.712	255.777
<b>65</b>	171.362	178.115	195.842	213.569	221.167
<b>70</b>	130.843	137.596	159.544	181.492	188.245
<b>75</b>	89.480	101.298	125.778	150.258	160.388
<b>80</b>	52.337	64.999	97.921	122.401	133.375
<b>85</b>	17.727	41.363	71.753	96.233	107.207
<b>90</b>	0.000	22.792	53.181	75.129	83.571
<b>95</b>	0.000	11.818	36.298	58.246	65.843
<b>100</b>	0.000	5.909	25.324	43.052	50.649
<b>105</b>	0.000	3.377	17.727	31.233	37.987
<b>110</b>	0.000	2.532	11.818	22.792	27.013
<b>115</b>	0.000	1.688	7.597	16.039	20.260
<b>120</b>	0.000	0.000	4.221	10.130	12.662
<b>125</b>	0.000	0.000	3.377	6.753	8.441
<b>130</b>	0.000	0.000	0.000	4.221	5.065
<b>135</b>	0.000	0.000	0.000	0.000	3.377
<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	188.32	N.A.	11.50
0-30	399.97	N.A.	24.40
0-40	655.36	N.A.	40.00
0-60	1163.00	N.A.	71.00
0-80	1491.22	N.A.	91.00
0-90	1567.18	N.A.	95.70
10-90	1518.44	N.A.	92.70
20-40	467.04	N.A.	28.50
20-50	731.98	N.A.	44.70
40-70	702.44	N.A.	42.90
60-80	328.22	N.A.	20.00
70-80	133.42	N.A.	8.10
80-90	75.96	N.A.	4.60
90-110	58.37	N.A.	3.60
90-120	67.23	N.A.	4.10
90-130	70.41	N.A.	4.30
90-150	70.91	N.A.	4.30
90-180	70.91	N.A.	4.30
110-180	12.54	N.A.	0.80
0-180	1638.09	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	48.74
10-20	139.58
20-30	211.65
30-40	255.39
40-50	264.94
50-60	242.70
60-70	194.80
70-80	133.42
80-90	75.96
90-100	38.97
100-110	19.41
110-120	8.86
120-130	3.17
130-140	0.50
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**

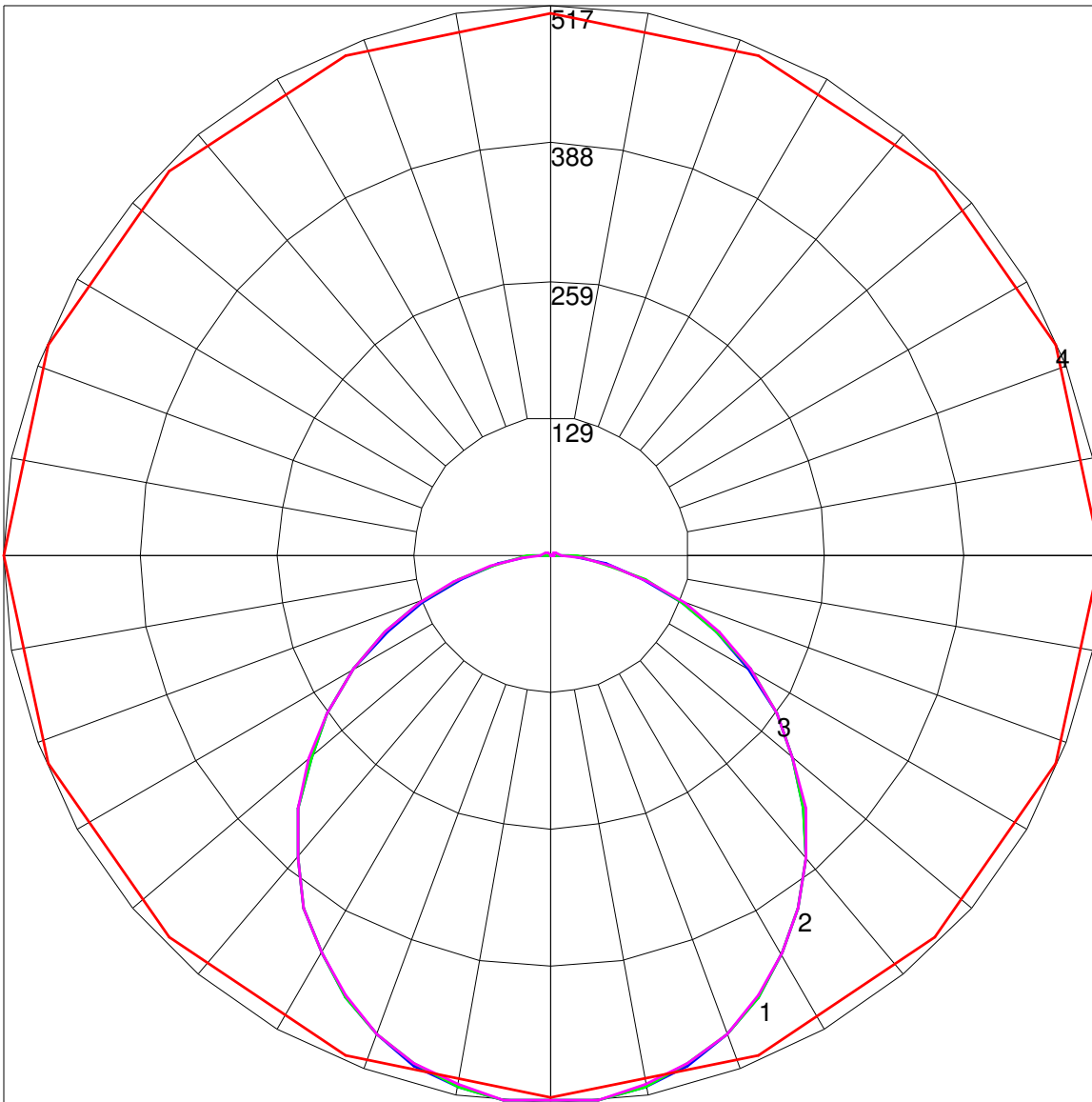
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	16.4	18.0	16.8	18.4	18.8	18.1	19.7	18.5	20.1	20.5
	3H	17.9	19.3	18.3	19.7	20.2	20.4	21.9	20.8	22.3	22.7
	4H	18.3	19.7	18.8	20.1	20.6	21.5	22.9	22.0	23.3	23.8
	6H	18.6	19.9	19.1	20.3	20.8	22.7	24.0	23.2	24.4	24.9
	8H	18.7	19.9	19.2	20.4	20.9	23.3	24.5	23.8	25.0	25.5
	12H	18.7	19.9	19.2	20.3	20.9	24.0	25.1	24.4	25.6	26.1
4H	2H	17.2	18.5	17.6	19.0	19.4	18.5	19.9	19.0	20.3	20.8
	3H	18.9	20.0	19.3	20.5	21.0	21.0	22.2	21.5	22.7	23.2
	4H	19.4	20.5	19.9	21.0	21.5	22.3	23.4	22.8	23.9	24.4
	6H	19.8	20.8	20.4	21.3	21.8	23.7	24.6	24.2	25.1	25.7
	8H	19.9	20.8	20.4	21.3	21.9	24.4	25.2	24.9	25.8	26.3
	12H	20.0	20.8	20.5	21.3	21.9	25.1	25.9	25.7	26.5	27.0
8H	4H	20.0	20.9	20.5	21.4	21.9	22.5	23.4	23.0	23.9	24.5
	6H	20.5	21.3	21.1	21.8	22.4	24.0	24.7	24.5	25.3	25.9
	8H	20.7	21.4	21.2	21.9	22.5	24.8	25.5	25.4	26.1	26.6
	12H	20.8	21.4	21.4	21.9	22.6	25.8	26.4	26.3	26.9	27.6
12H	4H	20.1	20.9	20.7	21.5	22.0	22.5	23.3	23.1	23.9	24.4
	6H	20.7	21.4	21.3	22.0	22.6	24.0	24.7	24.6	25.2	25.9
	8H	21.0	21.6	21.6	22.1	22.8	24.9	25.5	25.5	26.1	26.7

Maximum UGR = 27.6

POLAR GRAPH



Maximum Candela = 517.462 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.)