



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : SL-4-L5-935-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] 48 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-4-L5-935-RD-DIM-UNV  
 [LAMPCAT] 22 INCH LED ARRAY

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1678
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	97
Total Luminaire Watts	17.3
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)	4.00 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	10372	8359	7951
55	9789	7479	7172
65	8713	6429	6382
75	7296	5291	5680
85	3950	4387	5115

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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>	528.293	528.293	528.293	528.293	528.293
<b>5</b>	530.022	527.428	523.970	523.105	523.970
<b>10</b>	522.241	519.647	516.188	516.188	517.917
<b>15</b>	511.000	508.406	504.948	505.813	505.813
<b>20</b>	493.708	491.114	486.791	490.249	491.114
<b>25</b>	472.092	469.498	468.633	471.227	472.956
<b>30</b>	445.288	445.288	445.288	448.746	447.882
<b>35</b>	416.755	416.755	416.755	420.213	422.807
<b>40</b>	382.169	383.034	383.899	389.951	393.410
<b>45</b>	344.990	347.584	350.178	357.095	359.689
<b>50</b>	304.352	306.946	312.999	323.374	328.562
<b>55</b>	265.443	266.308	277.548	286.195	293.977
<b>60</b>	220.482	224.806	240.369	256.797	261.985
<b>65</b>	175.521	182.438	200.596	218.753	226.535
<b>70</b>	134.019	140.936	163.416	185.897	192.814
<b>75</b>	91.651	103.756	128.831	153.905	164.281
<b>80</b>	53.607	66.577	100.298	125.372	136.613
<b>85</b>	18.157	42.367	73.494	98.569	109.809
<b>90</b>	0.000	23.345	54.472	76.953	85.599
<b>95</b>	0.000	12.105	37.179	59.660	67.442
<b>100</b>	0.000	6.052	25.939	44.096	51.878
<b>105</b>	0.000	3.459	18.157	31.992	38.909
<b>110</b>	0.000	2.594	12.105	23.345	27.668
<b>115</b>	0.000	1.729	7.782	16.428	20.751
<b>120</b>	0.000	0.000	4.323	10.376	12.970
<b>125</b>	0.000	0.000	3.459	6.917	8.646
<b>130</b>	0.000	0.000	0.000	4.323	5.188
<b>135</b>	0.000	0.000	0.000	0.000	3.459
<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	192.89	N.A.	11.50
0-30	409.68	N.A.	24.40
0-40	671.27	N.A.	40.00
0-60	1191.23	N.A.	71.00
0-80	1527.41	N.A.	91.00
0-90	1605.22	N.A.	95.70
10-90	1555.3	N.A.	92.70
20-40	478.38	N.A.	28.50
20-50	749.74	N.A.	44.70
40-70	719.49	N.A.	42.90
60-80	336.19	N.A.	20.00
70-80	136.66	N.A.	8.10
80-90	77.81	N.A.	4.60
90-110	59.79	N.A.	3.60
90-120	68.87	N.A.	4.10
90-130	72.11	N.A.	4.30
90-150	72.63	N.A.	4.30
90-180	72.63	N.A.	4.30
110-180	12.84	N.A.	0.80
0-180	1677.85	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	49.92
10-20	142.97
20-30	216.79
30-40	261.59
40-50	271.37
50-60	248.59
60-70	199.53
70-80	136.66
80-90	77.81
90-100	39.91
100-110	19.88
110-120	9.08
120-130	3.25
130-140	0.52
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**

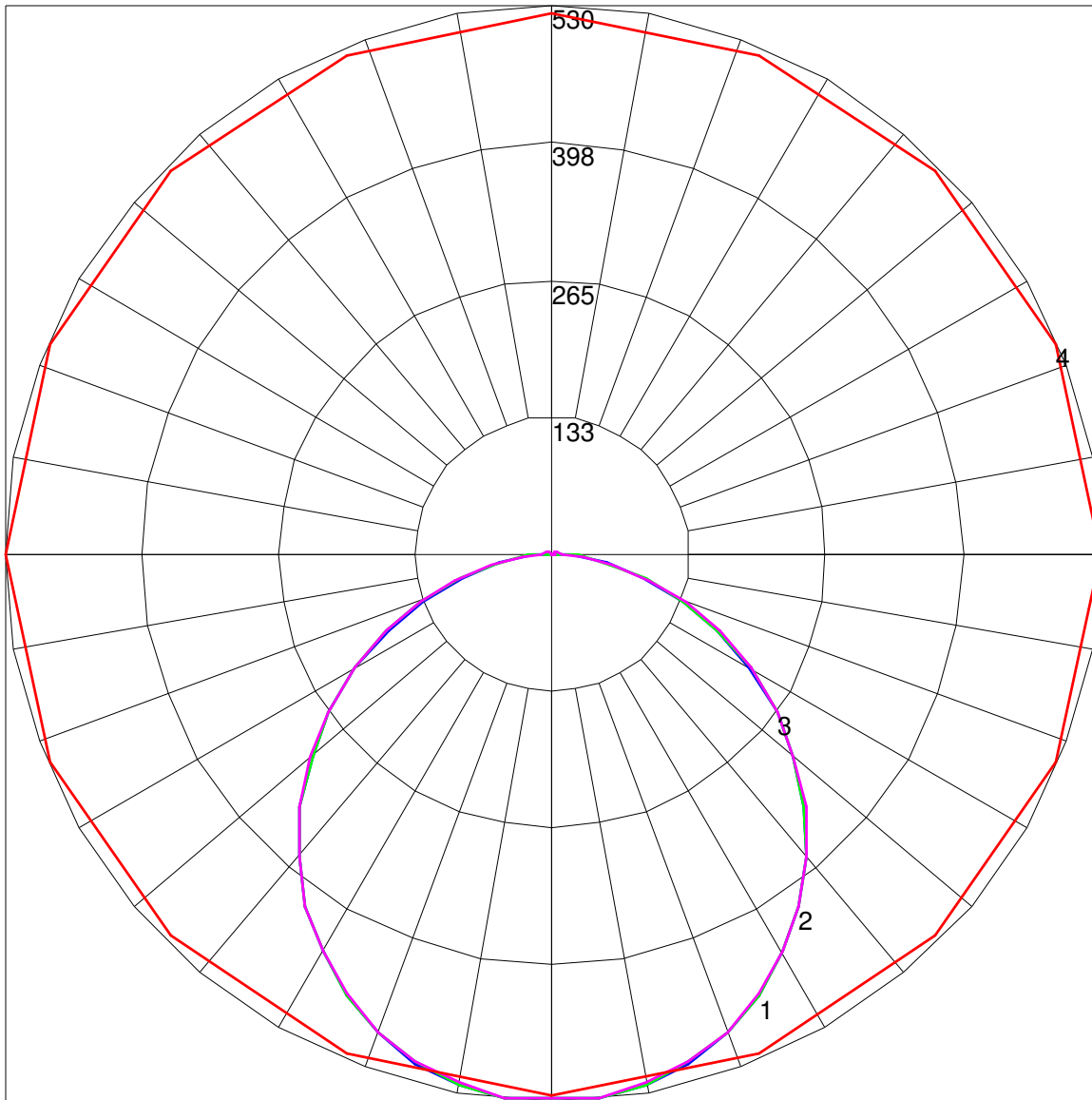
Reflectances

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	17.9	19.5	18.3	19.9	20.3	19.6	21.2	20.0	21.6	22.0
	3H	19.4	20.8	19.8	21.2	21.7	21.9	23.3	22.3	23.8	24.2
	4H	19.8	21.2	20.3	21.6	22.1	23.0	24.4	23.5	24.8	25.3
	6H	20.1	21.4	20.6	21.9	22.3	24.2	25.4	24.6	25.9	26.4
	8H	20.2	21.4	20.7	21.9	22.4	24.7	26.0	25.2	26.4	26.9
	12H	20.2	21.4	20.7	21.8	22.4	25.4	26.6	25.9	27.0	27.6
4H	2H	18.7	20.0	19.1	20.5	20.9	20.0	21.4	20.5	21.8	22.3
	3H	20.4	21.5	20.8	22.0	22.5	22.5	23.7	23.0	24.2	24.7
	4H	20.9	22.0	21.4	22.5	23.0	23.8	24.9	24.3	25.3	25.9
	6H	21.3	22.3	21.9	22.8	23.3	25.1	26.1	25.7	26.6	27.1
	8H	21.4	22.3	22.0	22.8	23.4	25.8	26.7	26.3	27.2	27.8
	12H	21.5	22.3	22.0	22.8	23.4	26.6	27.4	27.1	27.9	28.5
8H	4H	21.5	22.4	22.0	22.9	23.4	24.0	24.9	24.5	25.4	25.9
	6H	22.0	22.8	22.6	23.3	23.9	25.5	26.2	26.0	26.8	27.3
	8H	22.2	22.9	22.7	23.4	24.0	26.3	27.0	26.8	27.5	28.1
	12H	22.3	22.9	22.9	23.4	24.1	27.2	27.8	27.8	28.4	29.0
12H	4H	21.6	22.4	22.2	23.0	23.5	24.0	24.8	24.5	25.3	25.9
	6H	22.2	22.9	22.8	23.5	24.1	25.5	26.2	26.1	26.7	27.3
	8H	22.5	23.1	23.0	23.6	24.3	26.4	27.0	26.9	27.5	28.2

Maximum UGR = 29.0

POLAR GRAPH



Maximum Candela = 530.022 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.)