



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : SL-4-L3-850-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] 1.5x24"ALUM CHANNEL w/1"WIDE WHITE RADIAL ACRYLIC LENS  
 [MORE] 0-10V REMOTE DRIVER ENCLOSURE  
 [LUMCAT] SL-4-L3-850-RD-DIM-UNV  
 [LAMPCAT] 22 INCH LED ARRAY

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1291
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	117
Total Luminaire Watts	11
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	7979	6431	6117
55	7531	5753	5517
65	6703	4946	4910
75	5613	4071	4370
85	3039	3375	3935

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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>	406.414	406.414	406.414	406.414	406.414
<b>5</b>	407.745	405.749	403.088	402.423	403.088
<b>10</b>	401.758	399.763	397.102	397.102	398.432
<b>15</b>	393.111	391.115	388.455	389.120	389.120
<b>20</b>	379.808	377.812	374.486	377.147	377.812
<b>25</b>	363.179	361.183	360.518	362.513	363.844
<b>30</b>	342.559	342.559	342.559	345.219	344.554
<b>35</b>	320.608	320.608	320.608	323.269	325.264
<b>40</b>	294.002	294.667	295.332	299.988	302.649
<b>45</b>	265.400	267.395	269.391	274.712	276.708
<b>50</b>	234.137	236.133	240.789	248.771	252.762
<b>55</b>	204.205	204.870	213.517	220.169	226.155
<b>60</b>	169.616	172.942	184.915	197.553	201.544
<b>65</b>	135.028	140.349	154.318	168.286	174.273
<b>70</b>	103.100	108.421	125.716	143.010	148.331
<b>75</b>	70.507	79.819	99.109	118.399	126.381
<b>80</b>	41.240	51.217	77.159	96.449	105.096
<b>85</b>	13.968	32.593	56.539	75.829	84.476
<b>90</b>	0.000	17.959	41.905	59.199	65.851
<b>95</b>	0.000	9.312	28.602	45.896	51.883
<b>100</b>	0.000	4.656	19.955	33.923	39.910
<b>105</b>	0.000	2.661	13.968	24.611	29.932
<b>110</b>	0.000	1.995	9.312	17.959	21.285
<b>115</b>	0.000	1.330	5.986	12.638	15.964
<b>120</b>	0.000	0.000	3.326	7.982	9.977
<b>125</b>	0.000	0.000	2.661	5.321	6.652
<b>130</b>	0.000	0.000	0.000	3.326	3.991
<b>135</b>	0.000	0.000	0.000	0.000	2.661
<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	148.39	N.A.	11.50
0-30	315.17	N.A.	24.40
0-40	516.40	N.A.	40.00
0-60	916.41	N.A.	71.00
0-80	1175.03	N.A.	91.00
0-90	1234.89	N.A.	95.70
10-90	1196.49	N.A.	92.70
20-40	368.02	N.A.	28.50
20-50	576.78	N.A.	44.70
40-70	553.50	N.A.	42.90
60-80	258.63	N.A.	20.00
70-80	105.13	N.A.	8.10
80-90	59.86	N.A.	4.60
90-110	45.99	N.A.	3.60
90-120	52.98	N.A.	4.10
90-130	55.48	N.A.	4.30
90-150	55.87	N.A.	4.30
90-180	55.87	N.A.	4.30
110-180	9.88	N.A.	0.80
0-180	1290.77	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	38.40
10-20	109.98
20-30	166.78
30-40	201.24
40-50	208.76
50-60	191.24
60-70	153.50
70-80	105.13
80-90	59.86
90-100	30.70
100-110	15.29
110-120	6.98
120-130	2.50
130-140	0.40
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	75	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	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	29	24	36	29	24	35	28	24	33	28	23	22

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**UGR TABLE - CORRECTED**

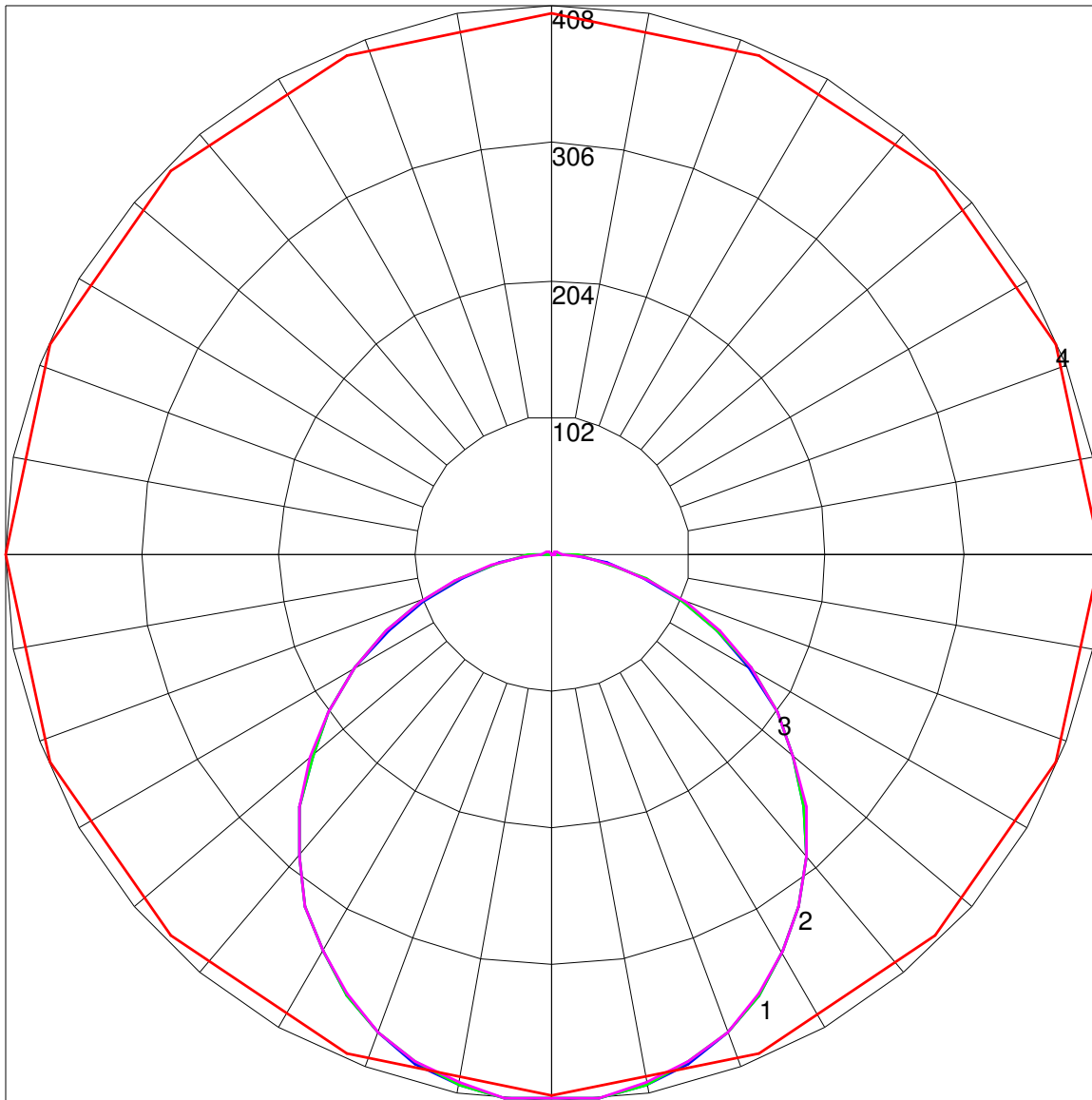
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	17.0	18.6	17.4	19.0	19.4	18.7	20.3	19.1	20.7	21.1
	3H	18.5	19.9	18.9	20.3	20.8	21.0	22.4	21.4	22.8	23.3
	4H	18.9	20.3	19.4	20.7	21.2	22.1	23.5	22.6	23.9	24.4
	6H	19.2	20.5	19.7	20.9	21.4	23.3	24.5	23.7	25.0	25.5
	8H	19.3	20.5	19.8	21.0	21.5	23.8	25.1	24.3	25.5	26.0
	12H	19.3	20.5	19.8	20.9	21.5	24.5	25.7	25.0	26.1	26.7
4H	2H	17.8	19.1	18.2	19.6	20.0	19.1	20.5	19.6	20.9	21.4
	3H	19.5	20.6	19.9	21.1	21.6	21.6	22.8	22.1	23.3	23.8
	4H	20.0	21.1	20.5	21.6	22.1	22.9	24.0	23.4	24.4	25.0
	6H	20.4	21.4	21.0	21.9	22.4	24.2	25.2	24.8	25.7	26.2
	8H	20.5	21.4	21.1	21.9	22.5	24.9	25.8	25.4	26.3	26.9
	12H	20.6	21.4	21.1	21.9	22.5	25.7	26.5	26.2	27.0	27.6
8H	4H	20.6	21.5	21.1	22.0	22.5	23.1	24.0	23.6	24.5	25.0
	6H	21.1	21.9	21.7	22.4	23.0	24.6	25.3	25.1	25.9	26.4
	8H	21.3	22.0	21.8	22.5	23.1	25.4	26.1	25.9	26.6	27.2
	12H	21.4	22.0	22.0	22.5	23.2	26.3	26.9	26.9	27.5	28.1
12H	4H	20.7	21.5	21.3	22.1	22.6	23.1	23.9	23.6	24.4	25.0
	6H	21.3	22.0	21.9	22.6	23.2	24.6	25.3	25.2	25.8	26.4
	8H	21.6	22.2	22.1	22.7	23.4	25.5	26.1	26.0	26.6	27.3

Maximum UGR = 28.1

POLAR GRAPH



Maximum Candela = 407.745 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.)