



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : SL-8-L3-830-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] 96 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-8-L3-830-RD-DIM-UNV  
[LAMPCAT] 22 INCH LED ARRAY

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2542
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	120
Total Luminaire Watts	21.1
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)	8.00 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	7902	6352	6022
55	7476	5689	5432
65	6682	4897	4834
75	5645	4039	4303
85	3180	3362	3874

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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>	800.287	800.287	800.287	800.287	800.287
<b>5</b>	802.907	798.977	793.738	792.428	793.738
<b>10</b>	791.119	787.189	781.950	781.950	784.570
<b>15</b>	774.091	770.162	764.923	766.232	766.232
<b>20</b>	747.895	743.966	737.417	742.656	743.966
<b>25</b>	715.150	711.221	709.911	713.840	716.460
<b>30</b>	674.546	674.546	674.546	679.786	678.476
<b>35</b>	631.323	631.323	631.323	636.562	640.492
<b>40</b>	578.931	580.241	581.551	590.719	595.959
<b>45</b>	522.610	526.539	530.469	540.947	544.876
<b>50</b>	461.049	464.979	474.147	489.865	497.724
<b>55</b>	402.108	403.418	420.445	433.543	445.332
<b>60</b>	333.999	340.548	364.124	389.010	396.869
<b>65</b>	265.889	276.368	303.873	331.379	343.167
<b>70</b>	203.019	213.497	247.552	281.607	292.085
<b>75</b>	138.839	157.176	195.160	233.144	248.862
<b>80</b>	81.208	100.855	151.937	189.921	206.948
<b>85</b>	27.506	64.180	111.333	149.317	166.344
<b>90</b>	0.000	35.365	82.517	116.572	129.670
<b>95</b>	0.000	18.337	56.321	90.376	102.164
<b>100</b>	0.000	9.169	39.294	66.800	78.588
<b>105</b>	0.000	5.239	27.506	48.463	58.941
<b>110</b>	0.000	3.929	18.337	35.365	41.914
<b>115</b>	0.000	2.620	11.788	24.886	31.435
<b>120</b>	0.000	0.000	6.549	15.718	19.647
<b>125</b>	0.000	0.000	5.239	10.478	13.098
<b>130</b>	0.000	0.000	0.000	6.549	7.859
<b>135</b>	0.000	0.000	0.000	0.000	5.239
<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	292.20	N.A.	11.50
0-30	620.61	N.A.	24.40
0-40	1016.87	N.A.	40.00
0-60	1804.54	N.A.	71.00
0-80	2313.81	N.A.	91.00
0-90	2431.68	N.A.	95.70
10-90	2356.05	N.A.	92.70
20-40	724.67	N.A.	28.50
20-50	1135.75	N.A.	44.70
40-70	1089.92	N.A.	42.90
60-80	509.27	N.A.	20.00
70-80	207.02	N.A.	8.10
80-90	117.87	N.A.	4.60
90-110	90.57	N.A.	3.60
90-120	104.32	N.A.	4.10
90-130	109.24	N.A.	4.30
90-150	110.03	N.A.	4.30
90-180	110.03	N.A.	4.30
110-180	19.45	N.A.	0.80
0-180	2541.7	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	75.62
10-20	216.57
20-30	328.41
30-40	396.27
40-50	411.08
50-60	376.58
60-70	302.26
70-80	207.02
80-90	117.87
90-100	60.46
100-110	30.11
110-120	13.75
120-130	4.92
130-140	0.78
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**

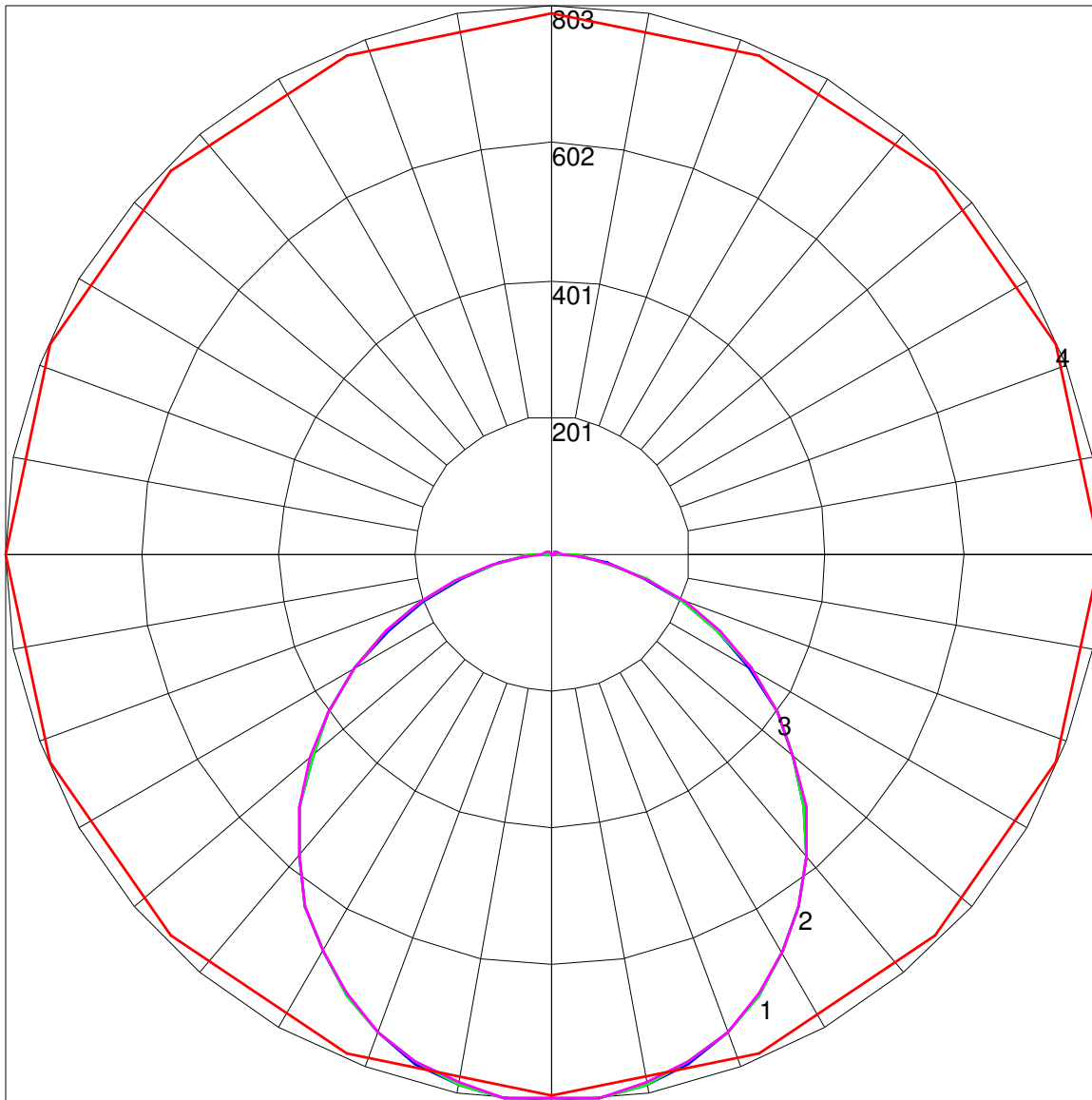
Reflectances

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	16.9	18.5	17.3	18.9	19.3	18.6	20.2	19.0	20.6	21.0
	3H	18.4	19.8	18.8	20.2	20.7	20.9	22.4	21.4	22.8	23.2
	4H	18.8	20.2	19.3	20.6	21.1	22.0	23.4	22.5	23.8	24.3
	6H	19.1	20.4	19.6	20.8	21.3	23.2	24.5	23.7	24.9	25.4
	8H	19.2	20.4	19.7	20.9	21.4	23.8	25.0	24.3	25.5	26.0
	12H	19.2	20.4	19.7	20.8	21.4	24.5	25.7	25.0	26.1	26.6
4H	2H	17.7	19.1	18.1	19.5	19.9	19.0	20.4	19.5	20.8	21.3
	3H	19.4	20.5	19.8	21.0	21.5	21.6	22.7	22.0	23.2	23.7
	4H	19.9	21.0	20.4	21.5	22.0	22.8	23.9	23.3	24.4	24.9
	6H	20.3	21.3	20.9	21.8	22.3	24.2	25.1	24.7	25.6	26.2
	8H	20.4	21.3	21.0	21.8	22.4	24.9	25.8	25.4	26.3	26.8
	12H	20.5	21.3	21.0	21.8	22.4	25.7	26.5	26.2	27.0	27.6
8H	4H	20.5	21.4	21.0	21.9	22.4	23.0	23.9	23.5	24.4	25.0
	6H	21.0	21.8	21.6	22.3	22.9	24.5	25.3	25.0	25.8	26.4
	8H	21.2	21.9	21.7	22.4	23.0	25.3	26.0	25.9	26.6	27.2
	12H	21.3	21.9	21.9	22.5	23.1	26.3	26.9	26.9	27.4	28.1
12H	4H	20.6	21.4	21.2	22.0	22.5	23.0	23.8	23.6	24.4	24.9
	6H	21.3	21.9	21.8	22.5	23.1	24.5	25.2	25.1	25.8	26.4
	8H	21.5	22.1	22.1	22.6	23.3	25.4	26.0	26.0	26.6	27.2

Maximum UGR = 28.1

POLAR GRAPH



Maximum Candela = 802.907 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.)