



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : SL-8-L3-840-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-L3-840-RD-DIM-UNV

[LAMPCAT] 22 INCH LED ARRAY

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2644
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	125
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	8221	6609	6266
55	7778	5919	5652
65	6952	5095	5030
75	5873	4202	4476
85	3309	3497	4031

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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>	832.622	832.622	832.622	832.622	832.622
<b>5</b>	835.347	831.259	825.808	824.446	825.808
<b>10</b>	823.083	818.995	813.544	813.544	816.269
<b>15</b>	805.368	801.279	795.828	797.191	797.191
<b>20</b>	778.113	774.025	767.211	772.662	774.025
<b>25</b>	744.045	739.957	738.594	742.682	745.408
<b>30</b>	701.801	701.801	701.801	707.252	705.889
<b>35</b>	656.831	656.831	656.831	662.282	666.370
<b>40</b>	602.322	603.685	605.048	614.587	620.038
<b>45</b>	543.725	547.813	551.902	562.803	566.892
<b>50</b>	479.677	483.766	493.305	509.657	517.834
<b>55</b>	418.355	419.718	437.433	451.060	463.325
<b>60</b>	347.494	354.307	378.836	404.728	412.904
<b>65</b>	276.632	287.534	316.151	344.768	357.033
<b>70</b>	211.222	222.123	257.554	292.985	303.887
<b>75</b>	144.448	163.526	203.045	242.564	258.917
<b>80</b>	84.489	104.929	158.076	197.594	215.310
<b>85</b>	28.617	66.773	115.831	155.350	173.065
<b>90</b>	0.000	36.793	85.851	121.282	134.909
<b>95</b>	0.000	19.078	58.597	94.028	106.292
<b>100</b>	0.000	9.539	40.882	69.499	81.763
<b>105</b>	0.000	5.451	28.617	50.421	61.322
<b>110</b>	0.000	4.088	19.078	36.793	43.607
<b>115</b>	0.000	2.725	12.264	25.892	32.705
<b>120</b>	0.000	0.000	6.814	16.353	20.441
<b>125</b>	0.000	0.000	5.451	10.902	13.627
<b>130</b>	0.000	0.000	0.000	6.814	8.176
<b>135</b>	0.000	0.000	0.000	0.000	5.451
<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	304.00	N.A.	11.50
0-30	645.68	N.A.	24.40
0-40	1057.96	N.A.	40.00
0-60	1877.45	N.A.	71.00
0-80	2407.3	N.A.	91.00
0-90	2529.93	N.A.	95.70
10-90	2451.25	N.A.	92.70
20-40	753.95	N.A.	28.50
20-50	1181.64	N.A.	44.70
40-70	1133.96	N.A.	42.90
60-80	529.85	N.A.	20.00
70-80	215.38	N.A.	8.10
80-90	122.63	N.A.	4.60
90-110	94.23	N.A.	3.60
90-120	108.54	N.A.	4.10
90-130	113.66	N.A.	4.30
90-150	114.47	N.A.	4.30
90-180	114.47	N.A.	4.30
110-180	20.24	N.A.	0.80
0-180	2644.4	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	78.68
10-20	225.32
20-30	341.68
30-40	412.28
40-50	427.69
50-60	391.80
60-70	314.47
70-80	215.38
80-90	122.63
90-100	62.90
100-110	31.33
110-120	14.31
120-130	5.12
130-140	0.81
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	56	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**

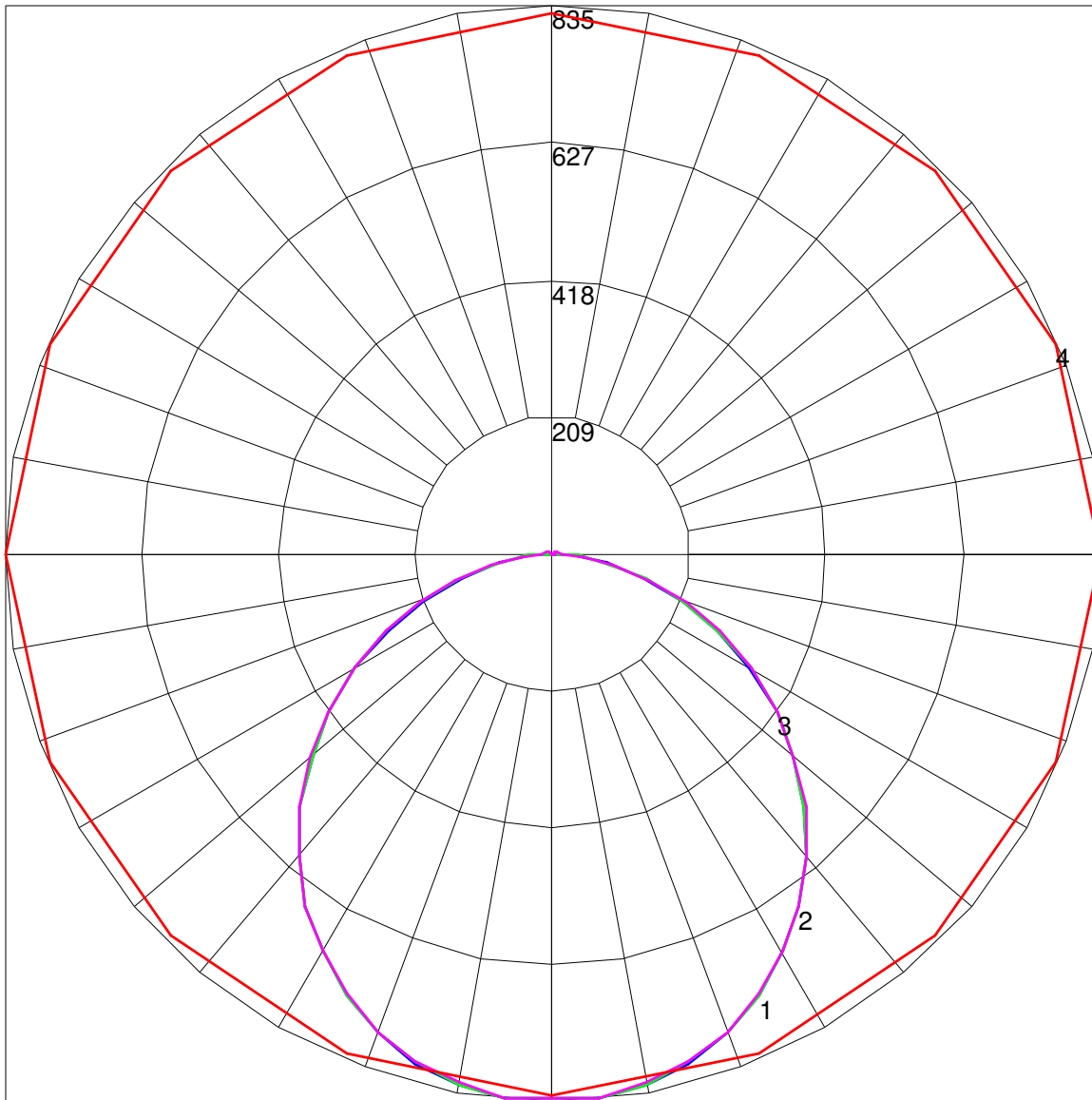
Reflectances

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	17.1	18.7	17.5	19.1	19.5	18.8	20.4	19.2	20.8	21.2
	3H	18.6	20.0	19.0	20.4	20.9	21.1	22.6	21.6	23.0	23.4
	4H	19.0	20.4	19.5	20.8	21.3	22.2	23.6	22.7	24.0	24.5
	6H	19.3	20.6	19.8	21.0	21.5	23.4	24.7	23.9	25.1	25.6
	8H	19.4	20.6	19.9	21.1	21.6	24.0	25.2	24.5	25.7	26.2
	12H	19.4	20.6	19.9	21.0	21.6	24.7	25.9	25.2	26.3	26.8
4H	2H	17.9	19.3	18.3	19.7	20.2	19.2	20.6	19.7	21.0	21.5
	3H	19.6	20.7	20.0	21.2	21.7	21.8	22.9	22.2	23.4	23.9
	4H	20.1	21.2	20.6	21.7	22.2	23.0	24.1	23.5	24.6	25.1
	6H	20.5	21.5	21.1	22.0	22.5	24.4	25.3	24.9	25.8	26.4
	8H	20.6	21.5	21.2	22.0	22.6	25.1	26.0	25.6	26.5	27.0
	12H	20.7	21.5	21.2	22.0	22.6	25.9	26.7	26.4	27.2	27.8
8H	4H	20.7	21.6	21.2	22.1	22.6	23.2	24.1	23.7	24.6	25.2
	6H	21.2	22.0	21.8	22.5	23.1	24.7	25.5	25.2	26.0	26.6
	8H	21.4	22.1	21.9	22.6	23.2	25.5	26.2	26.1	26.8	27.4
	12H	21.5	22.1	22.1	22.7	23.3	26.5	27.1	27.1	27.6	28.3
12H	4H	20.8	21.6	21.4	22.2	22.7	23.2	24.0	23.8	24.6	25.1
	6H	21.5	22.1	22.0	22.7	23.3	24.7	25.4	25.3	26.0	26.6
	8H	21.7	22.3	22.3	22.8	23.5	25.6	26.2	26.2	26.8	27.4

Maximum UGR = 28.3

POLAR GRAPH



Maximum Candela = 835.347 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.)