



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : SL-8-L3-827-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-L3-827-RD-DIM-UNV

[LAMPCAT] 22 INCH LED ARRAY

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2490
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	118
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	7742	6224	5901
55	7325	5574	5323
65	6547	4798	4737
75	5531	3957	4216
85	3116	3294	3796

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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>
0	784.119	784.119	784.119	784.119	784.119
5	786.686	782.836	777.703	776.419	777.703
10	775.136	771.286	766.153	766.153	768.719
15	758.453	754.603	749.469	750.753	750.753
20	732.786	728.936	722.519	727.653	728.936
25	700.703	696.853	695.569	699.419	701.986
30	660.919	660.919	660.919	666.052	664.769
35	618.569	618.569	618.569	623.702	627.552
40	567.235	568.519	569.802	578.785	583.919
45	512.052	515.902	519.752	530.019	533.869
50	451.735	455.585	464.568	479.968	487.668
55	393.985	395.268	411.951	424.785	436.335
60	327.251	333.668	356.768	381.151	388.851
65	260.518	270.784	297.734	324.685	336.235
70	198.917	209.184	242.551	275.918	286.184
75	136.034	154.001	191.217	228.434	243.834
80	79.567	98.817	148.867	186.084	202.767
85	26.950	62.884	109.084	146.301	162.984
90	0.000	34.650	80.850	114.217	127.050
95	0.000	17.967	55.184	88.550	100.100
100	0.000	8.983	38.500	65.450	77.000
105	0.000	5.133	26.950	47.484	57.750
110	0.000	3.850	17.967	34.650	41.067
115	0.000	2.567	11.550	24.383	30.800
120	0.000	0.000	6.417	15.400	19.250
125	0.000	0.000	5.133	10.267	12.833
130	0.000	0.000	0.000	6.417	7.700
135	0.000	0.000	0.000	0.000	5.133
140	0.000	0.000	0.000	0.000	0.000
145	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000
155	0.000	0.000	0.000	0.000	0.000
160	0.000	0.000	0.000	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000
170	0.000	0.000	0.000	0.000	0.000
175	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	286.30	N.A.	11.50
0-30	608.07	N.A.	24.40
0-40	996.33	N.A.	40.00
0-60	1768.08	N.A.	71.00
0-80	2267.06	N.A.	91.00
0-90	2382.55	N.A.	95.70
10-90	2308.46	N.A.	92.70
20-40	710.03	N.A.	28.50
20-50	1112.81	N.A.	44.70
40-70	1067.9	N.A.	42.90
60-80	498.98	N.A.	20.00
70-80	202.83	N.A.	8.10
80-90	115.49	N.A.	4.60
90-110	88.74	N.A.	3.60
90-120	102.21	N.A.	4.10
90-130	107.04	N.A.	4.30
90-150	107.80	N.A.	4.30
90-180	107.80	N.A.	4.30
110-180	19.06	N.A.	0.80
0-180	2490.35	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	74.10
10-20	212.20
20-30	321.77
30-40	388.26
40-50	402.78
50-60	368.98
60-70	296.15
70-80	202.83
80-90	115.49
90-100	59.24
100-110	29.50
110-120	13.47
120-130	4.82
130-140	0.77
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**

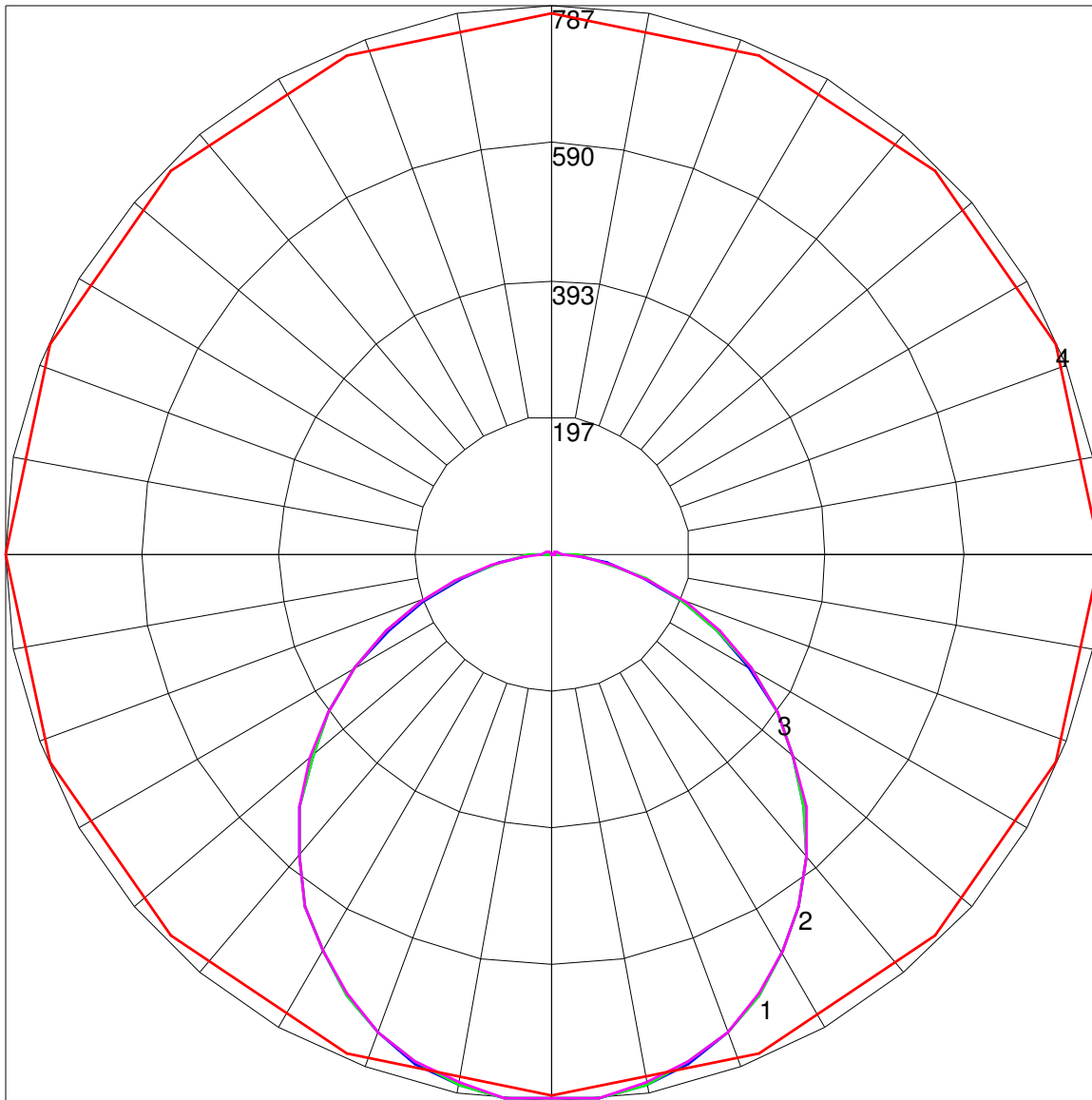
Reflectances

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	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	20.0	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 = 786.686 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.)