



IES INDOOR REPORT
PHOTOMETRIC FILENAME : SL-8-L5-827-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-L5-827-RD-DIM-UNV
[LAMPCAT] 22 INCH LED ARRAY

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3922
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	111
Total Luminaire Watts	35.2
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	12192	9801	9292
55	11536	8778	8382
65	10309	7555	7459
75	8710	6232	6639
85	4907	5187	5978

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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	1234.805	1234.805	1234.805	1234.805	1234.805
5	1238.847	1232.784	1224.701	1222.680	1224.701
10	1220.659	1214.596	1206.512	1206.512	1210.554
15	1194.386	1188.323	1180.239	1182.260	1182.260
20	1153.967	1147.904	1137.799	1145.883	1147.904
25	1103.443	1097.380	1095.359	1101.422	1105.464
30	1040.793	1040.793	1040.793	1048.877	1046.856
35	974.102	974.102	974.102	982.186	988.248
40	893.263	895.284	897.305	911.452	919.536
45	806.362	812.425	818.488	834.656	840.719
50	711.377	717.440	731.587	755.838	767.964
55	620.434	622.455	648.728	668.937	687.126
60	515.344	525.449	561.826	600.225	612.350
65	410.254	426.422	468.862	511.302	529.491
70	313.248	329.416	381.961	434.506	450.674
75	214.222	242.515	301.123	359.731	383.982
80	125.299	155.614	234.431	293.039	319.311
85	42.440	99.027	171.781	230.389	256.662
90	0.000	54.566	127.320	179.865	200.075
95	0.000	28.293	86.901	139.446	157.635
100	0.000	14.147	60.629	103.069	121.257
105	0.000	8.084	42.440	74.775	90.943
110	0.000	6.063	28.293	54.566	64.671
115	0.000	4.042	18.189	38.398	48.503
120	0.000	0.000	10.105	24.251	30.314
125	0.000	0.000	8.084	16.168	20.210
130	0.000	0.000	0.000	10.105	12.126
135	0.000	0.000	0.000	0.000	8.084
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	450.85	N.A.	11.50
0-30	957.57	N.A.	24.40
0-40	1568.99	N.A.	40.00
0-60	2784.32	N.A.	71.00
0-80	3570.1	N.A.	91.00
0-90	3751.96	N.A.	95.70
10-90	3635.28	N.A.	92.70
20-40	1118.14	N.A.	28.50
20-50	1752.41	N.A.	44.70
40-70	1681.7	N.A.	42.90
60-80	785.78	N.A.	20.00
70-80	319.42	N.A.	8.10
80-90	181.87	N.A.	4.60
90-110	139.75	N.A.	3.60
90-120	160.96	N.A.	4.10
90-130	168.56	N.A.	4.30
90-150	169.76	N.A.	4.30
90-180	169.76	N.A.	4.30
110-180	30.02	N.A.	0.80
0-180	3921.73	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	116.69
10-20	334.16
20-30	506.72
30-40	611.42
40-50	634.28
50-60	581.05
60-70	466.37
70-80	319.42
80-90	181.87
90-100	93.29
100-110	46.46
110-120	21.22
120-130	7.59
130-140	1.21
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

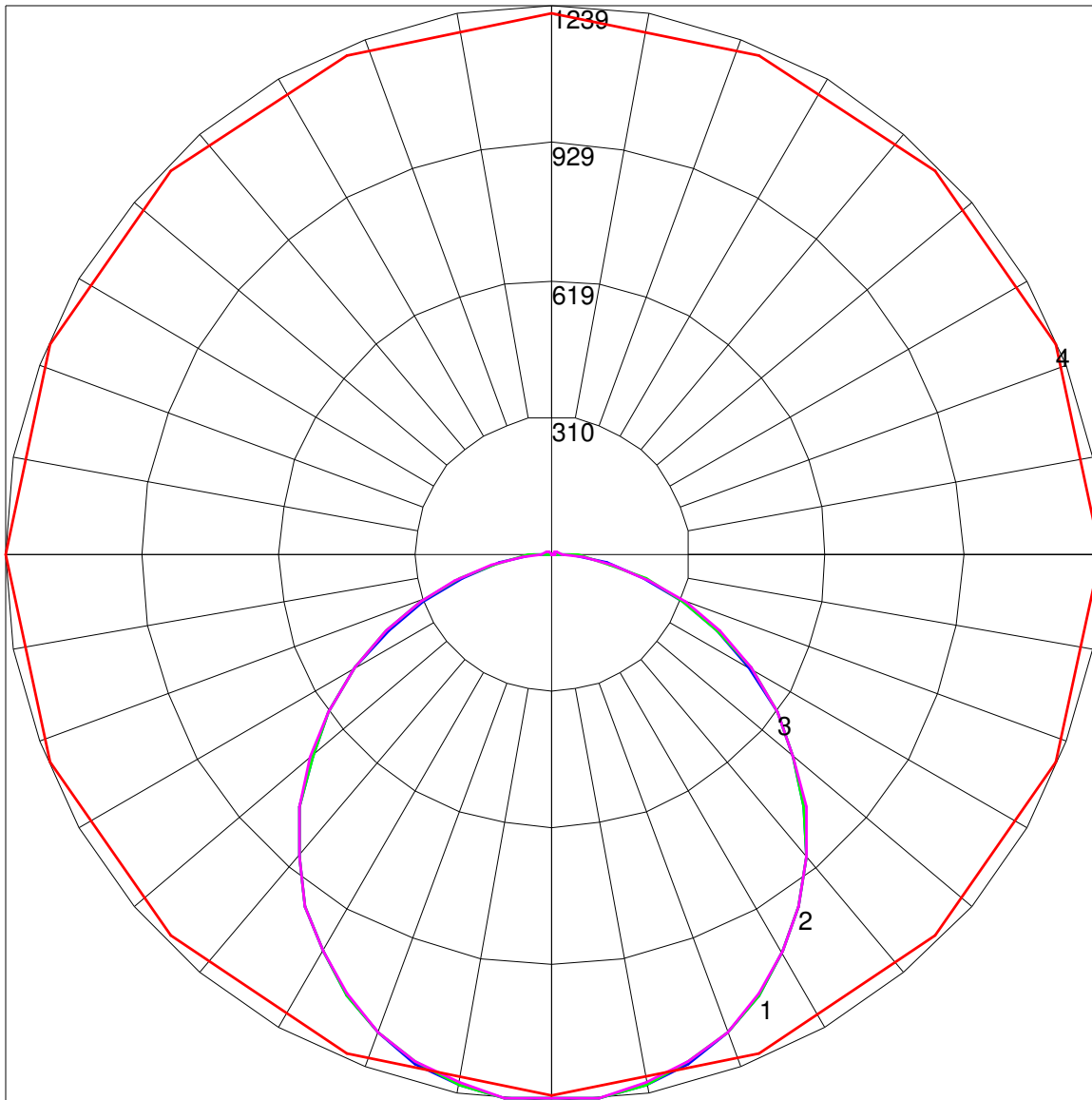
Reflectances

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	18.4	20.0	18.8	20.4	20.8	20.1	21.7	20.5	22.1	22.5
	3H	19.9	21.3	20.3	21.7	22.2	22.4	23.9	22.9	24.3	24.7
	4H	20.3	21.7	20.8	22.1	22.6	23.5	24.9	24.0	25.3	25.8
	6H	20.6	21.9	21.1	22.3	22.8	24.7	26.0	25.2	26.4	26.9
	8H	20.7	21.9	21.2	22.4	22.9	25.3	26.5	25.8	27.0	27.5
	12H	20.7	21.9	21.2	22.3	22.9	26.0	27.2	26.5	27.6	28.1
4H	2H	19.2	20.6	19.6	21.0	21.4	20.5	21.9	21.0	22.3	22.8
	3H	20.9	22.0	21.3	22.5	23.0	23.1	24.2	23.5	24.7	25.2
	4H	21.4	22.5	21.9	23.0	23.5	24.3	25.4	24.8	25.9	26.4
	6H	21.8	22.8	22.4	23.3	23.8	25.7	26.6	26.2	27.1	27.7
	8H	21.9	22.8	22.5	23.3	23.9	26.4	27.3	26.9	27.8	28.3
	12H	22.0	22.8	22.5	23.3	23.9	27.2	28.0	27.7	28.5	29.1
8H	4H	22.0	22.9	22.5	23.4	23.9	24.5	25.4	25.0	25.9	26.5
	6H	22.5	23.3	23.1	23.8	24.4	26.0	26.8	26.5	27.3	27.9
	8H	22.7	23.4	23.2	23.9	24.5	26.8	27.5	27.4	28.1	28.7
	12H	22.8	23.4	23.4	24.0	24.6	27.8	28.4	28.4	28.9	29.6
12H	4H	22.1	22.9	22.7	23.5	24.0	24.5	25.3	25.1	25.9	26.4
	6H	22.8	23.4	23.3	24.0	24.6	26.0	26.7	26.6	27.3	27.9
	8H	23.0	23.6	23.6	24.1	24.8	26.9	27.5	27.5	28.1	28.7

Maximum UGR = 29.6

POLAR GRAPH



Maximum Candela = 1238.847 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.)