



IES INDOOR REPORT

PHOTOMETRIC FILENAME : SL-8-L10-827-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-L10-827-RD-DIM-UNV
 [LAMPCAT] 22 INCH LED ARRAY

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7793
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	110
Total Luminaire Watts	70.8
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	24227	19476	18465
55	22923	17443	16656
65	20486	15014	14822
75	17308	12383	13192
85	9751	10307	11879

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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	2453.733	2453.733	2453.733	2453.733	2453.733
5	2461.765	2449.717	2433.654	2429.638	2433.654
10	2425.622	2413.574	2397.510	2397.510	2405.542
15	2373.415	2361.367	2345.303	2349.319	2349.319
20	2293.096	2281.048	2260.969	2277.032	2281.048
25	2192.698	2180.650	2176.634	2188.682	2196.714
30	2068.204	2068.204	2068.204	2084.268	2080.252
35	1935.678	1935.678	1935.678	1951.742	1963.790
40	1775.041	1779.057	1783.073	1811.185	1827.248
45	1602.356	1614.404	1626.452	1658.579	1670.627
50	1413.607	1425.655	1453.767	1501.958	1526.053
55	1232.891	1236.906	1289.114	1329.273	1365.416
60	1024.062	1044.142	1116.429	1192.731	1216.827
65	815.234	847.361	931.696	1016.030	1052.174
70	622.469	654.597	759.011	863.425	895.552
75	425.689	481.912	598.374	714.836	763.027
80	248.988	309.227	465.848	582.310	634.517
85	84.335	196.781	341.354	457.816	510.023
90	0.000	108.430	253.004	357.418	397.577
95	0.000	56.223	172.685	277.099	313.243
100	0.000	28.112	120.478	204.812	240.956
105	0.000	16.064	84.335	148.589	180.717
110	0.000	12.048	56.223	108.430	128.510
115	0.000	8.032	36.143	76.303	96.382
120	0.000	0.000	20.080	48.191	60.239
125	0.000	0.000	16.064	32.127	40.159
130	0.000	0.000	0.000	20.080	24.096
135	0.000	0.000	0.000	0.000	16.064
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	895.90	N.A.	11.50
0-30	1902.82	N.A.	24.40
0-40	3117.8	N.A.	40.00
0-60	5532.83	N.A.	71.00
0-80	7094.29	N.A.	91.00
0-90	7455.69	N.A.	95.70
10-90	7223.82	N.A.	92.70
20-40	2221.9	N.A.	28.50
20-50	3482.3	N.A.	44.70
40-70	3341.77	N.A.	42.90
60-80	1561.46	N.A.	20.00
70-80	634.73	N.A.	8.10
80-90	361.39	N.A.	4.60
90-110	277.70	N.A.	3.60
90-120	319.86	N.A.	4.10
90-130	334.95	N.A.	4.30
90-150	337.35	N.A.	4.30
90-180	337.35	N.A.	4.30
110-180	59.65	N.A.	0.80
0-180	7793.03	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	231.87
10-20	664.03
20-30	1006.92
30-40	1214.98
40-50	1260.4
50-60	1154.63
60-70	926.74
70-80	634.73
80-90	361.39
90-100	185.38
100-110	92.32
110-120	42.16
120-130	15.09
130-140	2.40
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	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	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

X=2H	Y=2H	20.8	22.4	21.2	22.8	23.2	22.5	24.1	22.9	24.5	24.9
	3H	22.3	23.7	22.7	24.1	24.6	24.8	26.3	25.3	26.7	27.1
	4H	22.7	24.1	23.2	24.5	25.0	25.9	27.3	26.4	27.7	28.2
	6H	23.0	24.3	23.5	24.7	25.2	27.1	28.4	27.6	28.8	29.3
	8H	23.1	24.3	23.6	24.8	25.3	27.7	28.9	28.2	29.4	29.9
	12H	23.1	24.3	23.6	24.7	25.3	28.4	29.6	28.9	30.0	30.5

UGR Viewed Endwise

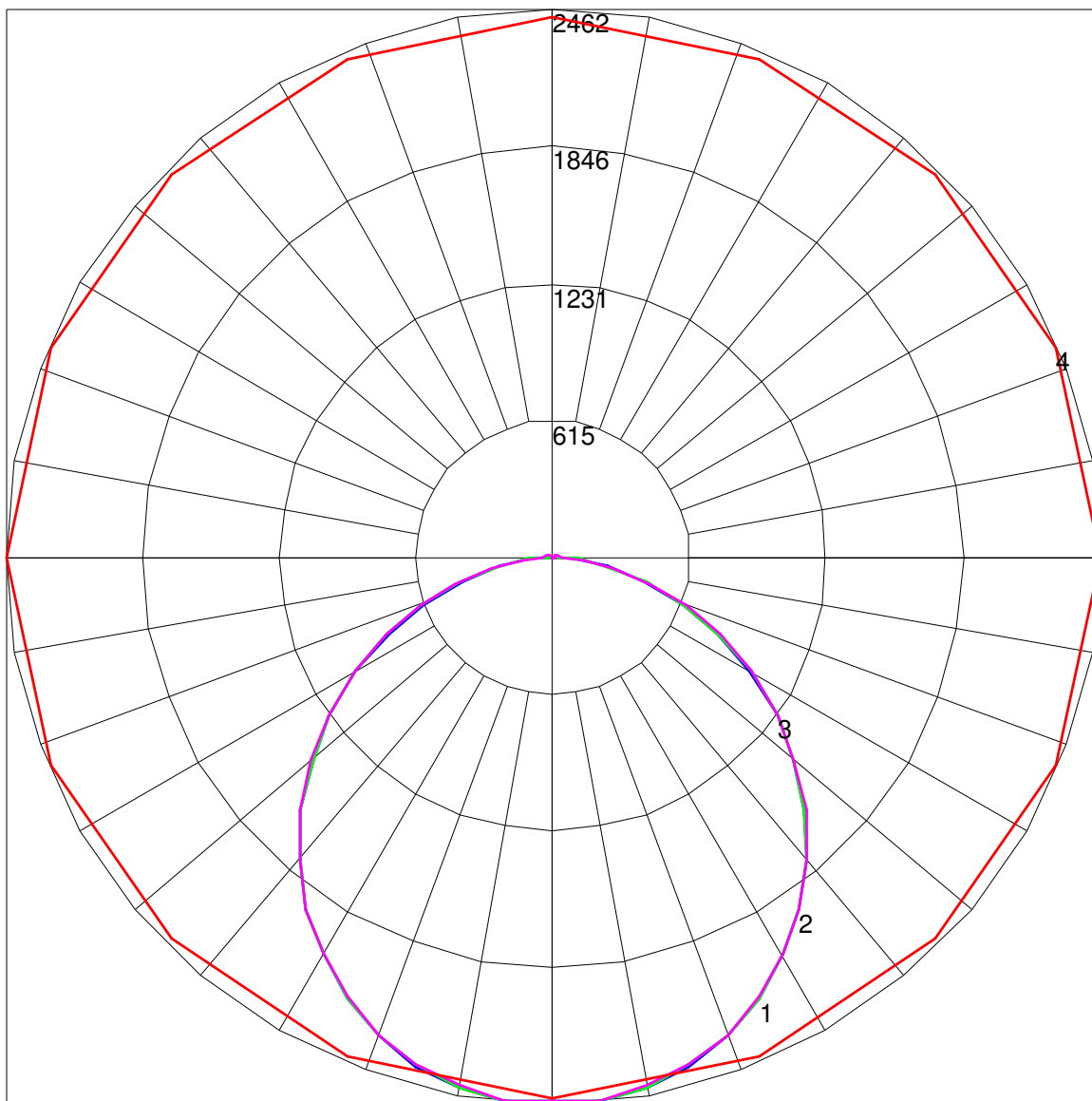
4H	2H	21.6	23.0	22.0	23.4	23.8	22.9	24.3	23.4	24.7	25.2
	3H	23.3	24.4	23.7	24.9	25.4	25.5	26.6	25.9	27.1	27.6
	4H	23.8	24.9	24.3	25.4	25.9	26.7	27.8	27.2	28.3	28.8
	6H	24.2	25.2	24.8	25.7	26.2	28.1	29.0	28.6	29.5	30.1
	8H	24.3	25.2	24.9	25.7	26.3	28.8	29.7	29.3	30.2	30.7
	12H	24.4	25.2	24.9	25.7	26.3	29.6	30.4	30.1	30.9	31.5

8H	4H	24.4	25.3	24.9	25.8	26.3	26.9	27.8	27.4	28.3	28.9
	6H	24.9	25.7	25.5	26.2	26.8	28.4	29.2	28.9	29.7	30.3
	8H	25.1	25.8	25.6	26.3	26.9	29.2	29.9	29.8	30.5	31.1
	12H	25.2	25.8	25.8	26.4	27.0	30.2	30.8	30.8	31.3	32.0

12H	4H	24.5	25.3	25.1	25.9	26.4	26.9	27.7	27.5	28.3	28.8
	6H	25.2	25.8	25.7	26.4	27.0	28.4	29.1	29.0	29.7	30.3
	8H	25.4	26.0	26.0	26.5	27.2	29.3	29.9	29.9	30.5	31.1

Maximum UGR = 32.0

POLAR GRAPH



Maximum Candela = 2461.765 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.)