



IES INDOOR REPORT
PHOTOMETRIC FILENAME : SL-2-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] 24 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-2-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	604
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	110
Total Luminaire Watts	5.5
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)	2.00 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	7383	5981	5726
55	6935	5340	5165
65	6124	4578	4596
75	5043	3753	4091
85	2544	3089	3684

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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	190.228	190.228	190.228	190.228	190.228
5	190.851	189.917	188.672	188.360	188.672
10	188.049	187.115	185.870	185.870	186.492
15	184.002	183.068	181.822	182.134	182.134
20	177.775	176.841	175.284	176.529	176.841
25	169.991	169.057	168.746	169.680	170.303
30	160.340	160.340	160.340	161.585	161.274
35	150.066	150.066	150.066	151.311	152.245
40	137.612	137.923	138.235	140.414	141.659
45	124.224	125.158	126.092	128.583	129.517
50	109.592	110.526	112.705	116.441	118.309
55	95.581	95.893	99.940	103.053	105.855
60	79.392	80.948	86.552	92.468	94.336
65	63.202	65.693	72.231	78.769	81.571
70	48.258	50.748	58.843	66.938	69.429
75	33.002	37.361	46.390	55.418	59.155
80	19.303	23.973	36.115	45.144	49.192
85	6.538	15.256	26.464	35.493	39.540
90	0.000	8.406	19.614	27.709	30.823
95	0.000	4.359	13.388	21.482	24.284
100	0.000	2.179	9.340	15.878	18.680
105	0.000	1.245	6.538	11.520	14.010
110	0.000	0.934	4.359	8.406	9.963
115	0.000	0.623	2.802	5.915	7.472
120	0.000	0.000	1.557	3.736	4.670
125	0.000	0.000	1.245	2.491	3.113
130	0.000	0.000	0.000	1.557	1.868
135	0.000	0.000	0.000	0.000	1.245
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	69.46	N.A.	11.50
0-30	147.52	N.A.	24.40
0-40	241.71	N.A.	40.00
0-60	428.94	N.A.	71.00
0-80	549.99	N.A.	91.00
0-90	578.01	N.A.	95.70
10-90	560.03	N.A.	92.70
20-40	172.26	N.A.	28.50
20-50	269.97	N.A.	44.70
40-70	259.07	N.A.	42.90
60-80	121.05	N.A.	20.00
70-80	49.21	N.A.	8.10
80-90	28.02	N.A.	4.60
90-110	21.53	N.A.	3.60
90-120	24.80	N.A.	4.10
90-130	25.97	N.A.	4.30
90-150	26.15	N.A.	4.30
90-180	26.15	N.A.	4.30
110-180	4.62	N.A.	0.80
0-180	604.16	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	17.98
10-20	51.48
20-30	78.06
30-40	94.19
40-50	97.71
50-60	89.51
60-70	71.85
70-80	49.21
80-90	28.02
90-100	14.37
100-110	7.16
110-120	3.27
120-130	1.17
130-140	0.19
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

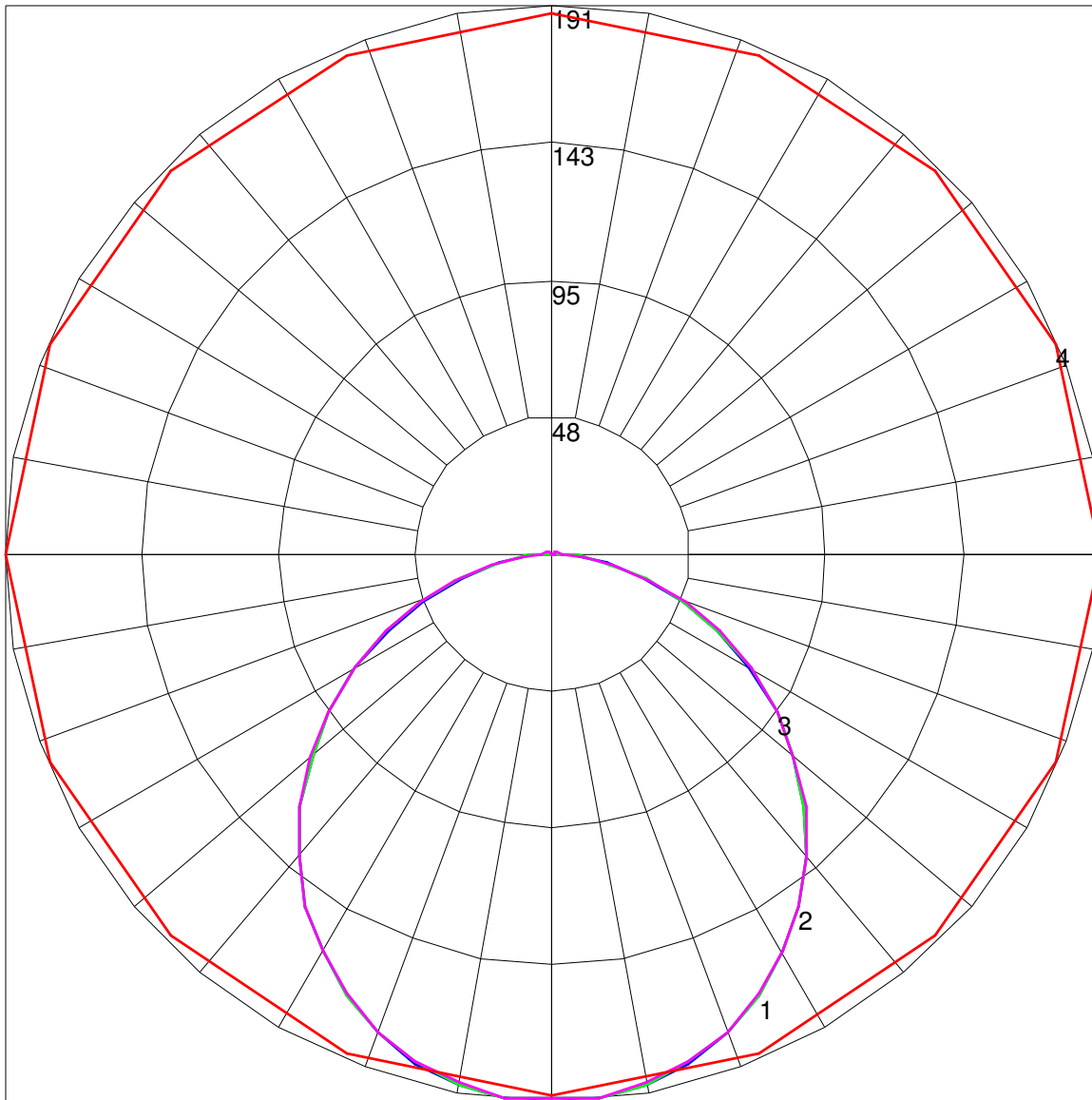
Reflectances

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	16.7	18.3	17.1	18.7	19.1	18.4	19.9	18.8	20.3	20.8
	3H	18.2	19.6	18.6	20.0	20.5	20.6	22.1	21.1	22.5	23.0
	4H	18.6	20.0	19.1	20.4	20.9	21.7	23.1	22.2	23.5	24.0
	6H	18.9	20.2	19.4	20.7	21.1	22.9	24.1	23.3	24.6	25.1
	8H	19.0	20.2	19.5	20.7	21.2	23.5	24.7	23.9	25.1	25.6
	12H	19.0	20.2	19.5	20.6	21.2	24.1	25.2	24.6	25.7	26.2
4H	2H	17.5	18.8	17.9	19.3	19.7	18.8	20.1	19.2	20.6	21.0
	3H	19.2	20.3	19.6	20.8	21.3	21.3	22.4	21.8	22.9	23.4
	4H	19.7	20.8	20.2	21.3	21.8	22.5	23.6	23.0	24.1	24.6
	6H	20.1	21.1	20.6	21.6	22.1	23.8	24.8	24.4	25.3	25.8
	8H	20.2	21.1	20.7	21.6	22.2	24.5	25.4	25.0	25.9	26.5
	12H	20.3	21.1	20.8	21.6	22.2	25.3	26.1	25.8	26.6	27.2
8H	4H	20.3	21.2	20.8	21.7	22.2	22.7	23.6	23.2	24.1	24.7
	6H	20.8	21.5	21.3	22.1	22.7	24.2	24.9	24.7	25.5	26.0
	8H	21.0	21.6	21.5	22.2	22.8	25.0	25.7	25.5	26.2	26.8
	12H	21.1	21.7	21.6	22.2	22.9	25.9	26.5	26.4	27.0	27.7
12H	4H	20.4	21.2	21.0	21.8	22.3	22.7	23.5	23.3	24.1	24.6
	6H	21.0	21.7	21.6	22.2	22.9	24.2	24.9	24.8	25.4	26.1
	8H	21.3	21.9	21.8	22.4	23.1	25.1	25.7	25.6	26.2	26.9

Maximum UGR = 27.7

POLAR GRAPH



Maximum Candela = 190.851 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.)