



IES INDOOR REPORT

PHOTOMETRIC FILENAME : SL-2-L3-950-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-L3-950-RD-DIM-UNV

[LAMPCAT] 22 INCH LED ARRAY

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	554
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	101
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	6774	5488	5254
55	6363	4900	4739
65	5619	4201	4217
75	4627	3444	3753
85	2334	2834	3380

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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	174.539	174.539	174.539	174.539	174.539
5	175.111	174.254	173.111	172.826	173.111
10	172.540	171.683	170.540	170.540	171.112
15	168.826	167.969	166.827	167.112	167.112
20	163.113	162.256	160.828	161.970	162.256
25	155.971	155.114	154.829	155.686	156.257
30	147.116	147.116	147.116	148.259	147.973
35	137.689	137.689	137.689	138.832	139.689
40	126.263	126.548	126.834	128.834	129.976
45	113.979	114.836	115.693	117.978	118.835
50	100.553	101.410	103.410	106.838	108.552
55	87.698	87.984	91.698	94.554	97.125
60	72.844	74.272	79.414	84.842	86.556
65	57.989	60.275	66.274	72.272	74.843
70	44.278	46.563	53.990	61.417	63.703
75	30.280	34.279	42.564	50.848	54.276
80	17.711	21.996	33.137	41.421	45.135
85	5.999	13.997	24.281	32.565	36.279
90	0.000	7.713	17.997	25.424	28.281
95	0.000	3.999	12.283	19.711	22.282
100	0.000	2.000	8.570	14.569	17.140
105	0.000	1.143	5.999	10.569	12.855
110	0.000	0.857	3.999	7.713	9.141
115	0.000	0.571	2.571	5.428	6.856
120	0.000	0.000	1.428	3.428	4.285
125	0.000	0.000	1.143	2.285	2.857
130	0.000	0.000	0.000	1.428	1.714
135	0.000	0.000	0.000	0.000	1.143
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	63.73	N.A.	11.50
0-30	135.35	N.A.	24.40
0-40	221.78	N.A.	40.00
0-60	393.56	N.A.	71.00
0-80	504.63	N.A.	91.00
0-90	530.34	N.A.	95.70
10-90	513.85	N.A.	92.70
20-40	158.05	N.A.	28.50
20-50	247.70	N.A.	44.70
40-70	237.71	N.A.	42.90
60-80	111.07	N.A.	20.00
70-80	45.15	N.A.	8.10
80-90	25.71	N.A.	4.60
90-110	19.75	N.A.	3.60
90-120	22.75	N.A.	4.10
90-130	23.83	N.A.	4.30
90-150	24.00	N.A.	4.30
90-180	24.00	N.A.	4.30
110-180	4.24	N.A.	0.80
0-180	554.34	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	16.49
10-20	47.23
20-30	71.62
30-40	86.42
40-50	89.65
50-60	82.13
60-70	65.92
70-80	45.15
80-90	25.71
90-100	13.19
100-110	6.57
110-120	3.00
120-130	1.07
130-140	0.17
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	77	68	61	85	75	67	60	71	64	59	68	62	57	64	60	55	53
4	80	68	58	52	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	33	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

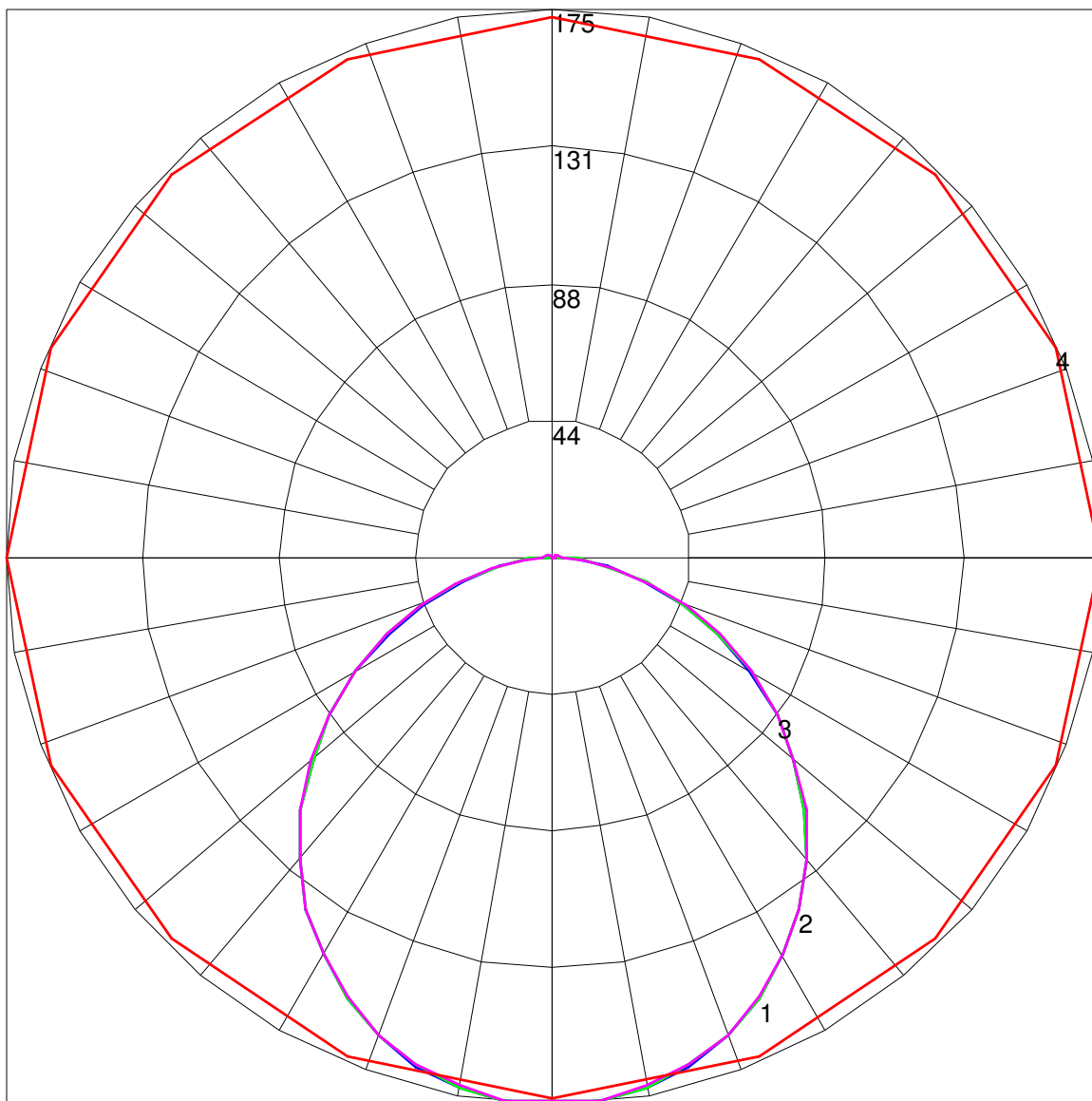
Reflectances

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	16.4	18.0	16.8	18.4	18.8	18.1	19.6	18.5	20.0	20.5
	3H	17.9	19.3	18.3	19.7	20.2	20.3	21.8	20.8	22.2	22.7
	4H	18.3	19.7	18.8	20.1	20.6	21.4	22.8	21.9	23.2	23.7
	6H	18.6	19.9	19.1	20.4	20.8	22.6	23.8	23.0	24.3	24.8
	8H	18.7	19.9	19.2	20.4	20.9	23.2	24.4	23.6	24.8	25.3
	12H	18.7	19.9	19.2	20.3	20.9	23.8	24.9	24.3	25.4	25.9
4H	2H	17.2	18.5	17.6	19.0	19.4	18.5	19.8	18.9	20.3	20.7
	3H	18.9	20.0	19.3	20.5	21.0	21.0	22.1	21.5	22.6	23.1
	4H	19.4	20.5	19.9	21.0	21.5	22.2	23.3	22.7	23.8	24.3
	6H	19.8	20.8	20.3	21.3	21.8	23.6	24.5	24.1	25.0	25.5
	8H	19.9	20.8	20.4	21.3	21.9	24.2	25.1	24.7	25.6	26.2
	12H	20.0	20.8	20.5	21.3	21.9	25.0	25.8	25.5	26.3	26.9
8H	4H	20.0	20.9	20.5	21.4	21.9	22.4	23.3	22.9	23.8	24.4
	6H	20.5	21.3	21.1	21.8	22.4	23.9	24.6	24.4	25.2	25.8
	8H	20.7	21.3	21.2	21.9	22.5	24.7	25.4	25.2	25.9	26.5
	12H	20.8	21.4	21.3	21.9	22.6	25.6	26.2	26.2	26.7	27.4
12H	4H	20.1	20.9	20.7	21.5	22.0	22.4	23.2	23.0	23.8	24.3
	6H	20.7	21.4	21.3	21.9	22.6	23.9	24.6	24.5	25.1	25.8
	8H	21.0	21.6	21.5	22.1	22.8	24.8	25.4	25.3	25.9	26.6

Maximum UGR = 27.4

POLAR GRAPH



Maximum Candela = 175.111 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.)