



IES INDOOR REPORT

PHOTOMETRIC FILENAME : SL-2-L3-927-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-L3-927-RD-DIM-UNV

[LAMPCAT] 22 INCH LED ARRAY

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	498
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	91
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	6089	4933	4722
55	5720	4405	4260
65	5051	3776	3791
75	4159	3095	3374
85	2098	2547	3038

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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	156.889	156.889	156.889	156.889	156.889
5	157.403	156.633	155.606	155.349	155.606
10	155.092	154.322	153.295	153.295	153.808
15	151.754	150.984	149.957	150.213	150.213
20	146.618	145.848	144.564	145.591	145.848
25	140.199	139.429	139.172	139.942	140.456
30	132.239	132.239	132.239	133.266	133.009
35	123.766	123.766	123.766	124.793	125.563
40	113.495	113.751	114.008	115.805	116.833
45	102.453	103.224	103.994	106.048	106.818
50	90.385	91.155	92.953	96.034	97.574
55	78.830	79.087	82.425	84.992	87.303
60	65.478	66.761	71.383	76.262	77.803
65	52.125	54.180	59.572	64.964	67.275
70	39.800	41.854	48.530	55.207	57.261
75	27.218	30.813	38.259	45.706	48.787
80	15.920	19.772	29.786	37.232	40.570
85	5.392	12.582	21.826	29.272	32.610
90	0.000	6.933	16.177	22.853	25.421
95	0.000	3.595	11.041	17.717	20.028
100	0.000	1.797	7.703	13.096	15.406
105	0.000	1.027	5.392	9.501	11.555
110	0.000	0.770	3.595	6.933	8.217
115	0.000	0.514	2.311	4.879	6.163
120	0.000	0.000	1.284	3.081	3.852
125	0.000	0.000	1.027	2.054	2.568
130	0.000	0.000	0.000	1.284	1.541
135	0.000	0.000	0.000	0.000	1.027
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	57.28	N.A.	11.50
0-30	121.66	N.A.	24.40
0-40	199.35	N.A.	40.00
0-60	353.76	N.A.	71.00
0-80	453.60	N.A.	91.00
0-90	476.71	N.A.	95.70
10-90	461.88	N.A.	92.70
20-40	142.07	N.A.	28.50
20-50	222.65	N.A.	44.70
40-70	213.67	N.A.	42.90
60-80	99.84	N.A.	20.00
70-80	40.58	N.A.	8.10
80-90	23.11	N.A.	4.60
90-110	17.76	N.A.	3.60
90-120	20.45	N.A.	4.10
90-130	21.42	N.A.	4.30
90-150	21.57	N.A.	4.30
90-180	21.57	N.A.	4.30
110-180	3.81	N.A.	0.80
0-180	498.28	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	14.83
10-20	42.46
20-30	64.38
30-40	77.68
40-50	80.59
50-60	73.83
60-70	59.25
70-80	40.58
80-90	23.11
90-100	11.85
100-110	5.90
110-120	2.70
120-130	0.96
130-140	0.15
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

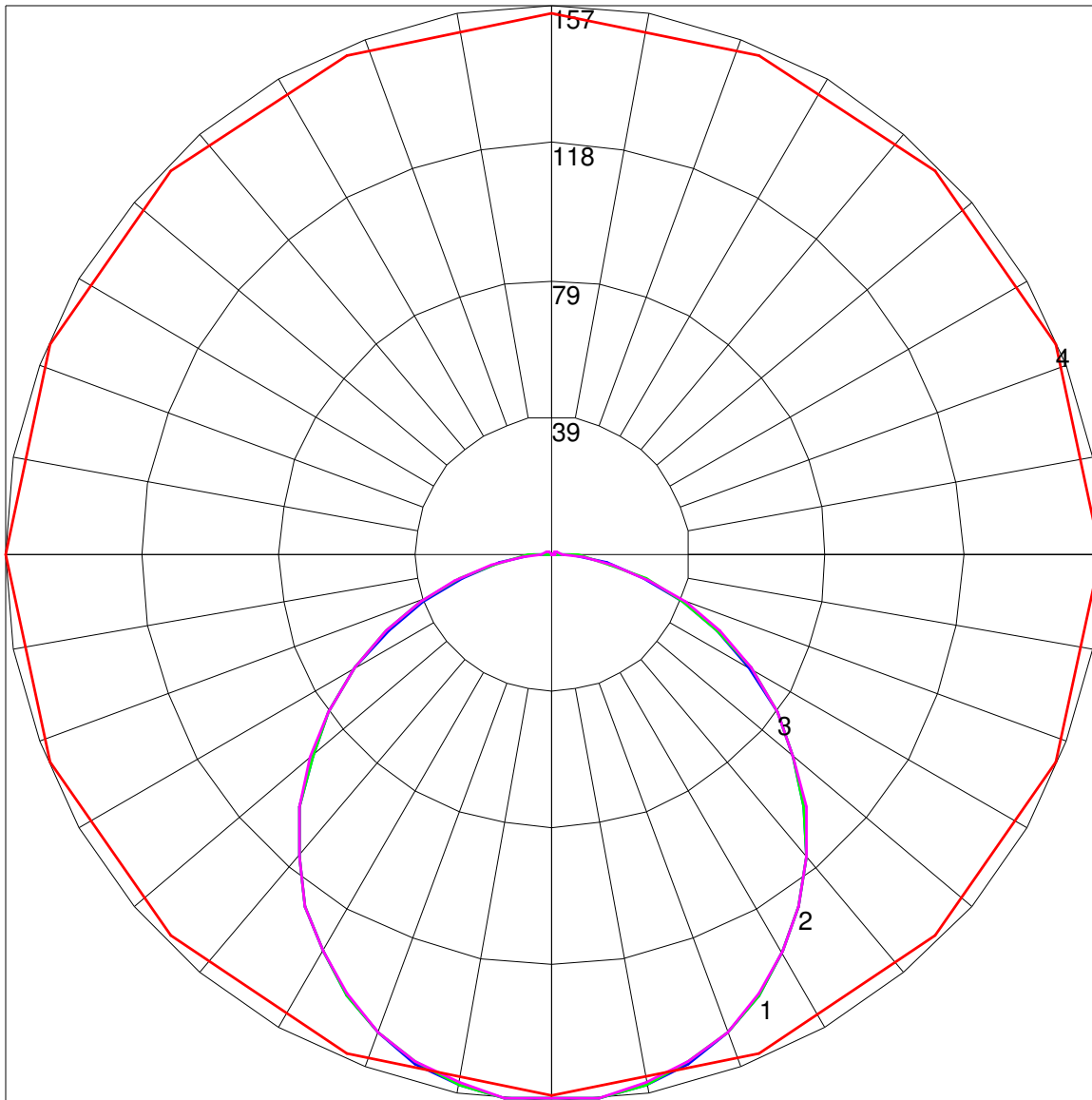
Reflectances

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	16.1	17.7	16.5	18.1	18.5	17.8	19.3	18.2	19.7	20.2
	3H	17.6	19.0	18.0	19.4	19.9	20.0	21.5	20.5	21.9	22.4
	4H	18.0	19.4	18.5	19.8	20.3	21.1	22.5	21.6	22.9	23.4
	6H	18.3	19.6	18.8	20.1	20.5	22.3	23.5	22.7	24.0	24.5
	8H	18.4	19.6	18.9	20.1	20.6	22.9	24.1	23.3	24.5	25.0
	12H	18.4	19.6	18.9	20.0	20.6	23.5	24.6	24.0	25.1	25.6
4H	2H	16.9	18.2	17.3	18.7	19.1	18.2	19.5	18.6	20.0	20.4
	3H	18.6	19.7	19.0	20.2	20.7	20.7	21.8	21.2	22.3	22.8
	4H	19.1	20.2	19.6	20.7	21.2	21.9	23.0	22.4	23.5	24.0
	6H	19.5	20.5	20.0	21.0	21.5	23.3	24.2	23.8	24.7	25.2
	8H	19.6	20.5	20.1	21.0	21.6	23.9	24.8	24.4	25.3	25.9
	12H	19.7	20.5	20.2	21.0	21.6	24.7	25.5	25.2	26.0	26.6
8H	4H	19.7	20.6	20.2	21.1	21.6	22.1	23.0	22.6	23.5	24.1
	6H	20.2	21.0	20.8	21.5	22.1	23.6	24.3	24.1	24.9	25.5
	8H	20.4	21.0	20.9	21.6	22.2	24.4	25.1	24.9	25.6	26.2
	12H	20.5	21.1	21.0	21.6	22.3	25.3	25.9	25.9	26.4	27.1
12H	4H	19.8	20.6	20.4	21.2	21.7	22.1	22.9	22.7	23.5	24.0
	6H	20.4	21.1	21.0	21.6	22.3	23.6	24.3	24.2	24.8	25.5
	8H	20.7	21.3	21.2	21.8	22.5	24.5	25.1	25.0	25.6	26.3

Maximum UGR = 27.1

POLAR GRAPH



Maximum Candela = 157.403 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.)