



IES INDOOR REPORT
PHOTOMETRIC FILENAME : SL-2-L3-850-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-L3-850-RD-DIM-UNV
[LAMPCAT] 22 INCH LED ARRAY

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	660
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	120
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	8068	6536	6257
55	7579	5836	5644
65	6692	5003	5023
75	5510	4101	4470
85	2780	3375	4025

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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	207.879	207.879	207.879	207.879	207.879
5	208.559	207.538	206.177	205.837	206.177
10	205.497	204.476	203.115	203.115	203.796
15	201.074	200.053	198.692	199.033	199.033
20	194.269	193.249	191.548	192.909	193.249
25	185.764	184.743	184.403	185.424	186.104
30	175.217	175.217	175.217	176.578	176.237
35	163.989	163.989	163.989	165.350	166.371
40	150.380	150.720	151.061	153.442	154.803
45	135.750	136.771	137.792	140.514	141.534
50	119.760	120.780	123.162	127.245	129.286
55	104.450	104.790	109.213	112.615	115.677
60	86.758	88.459	94.583	101.047	103.089
65	69.066	71.788	78.933	86.077	89.139
70	52.735	55.457	64.303	73.149	75.871
75	36.064	40.827	50.694	60.560	64.643
80	21.094	26.197	39.466	49.333	53.756
85	7.145	16.671	28.919	38.786	43.209
90	0.000	9.186	21.434	30.280	33.682
95	0.000	4.763	14.630	23.476	26.538
100	0.000	2.382	10.207	17.352	20.414
105	0.000	1.361	7.145	12.588	15.310
110	0.000	1.021	4.763	9.186	10.887
115	0.000	0.680	3.062	6.464	8.165
120	0.000	0.000	1.701	4.083	5.103
125	0.000	0.000	1.361	2.722	3.402
130	0.000	0.000	0.000	1.701	2.041
135	0.000	0.000	0.000	0.000	1.361
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	75.90	N.A.	11.50
0-30	161.21	N.A.	24.40
0-40	264.14	N.A.	40.00
0-60	468.74	N.A.	71.00
0-80	601.02	N.A.	91.00
0-90	631.64	N.A.	95.70
10-90	612.00	N.A.	92.70
20-40	188.24	N.A.	28.50
20-50	295.02	N.A.	44.70
40-70	283.11	N.A.	42.90
60-80	132.29	N.A.	20.00
70-80	53.77	N.A.	8.10
80-90	30.62	N.A.	4.60
90-110	23.53	N.A.	3.60
90-120	27.10	N.A.	4.10
90-130	28.38	N.A.	4.30
90-150	28.58	N.A.	4.30
90-180	28.58	N.A.	4.30
110-180	5.05	N.A.	0.80
0-180	660.22	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	19.64
10-20	56.26
20-30	85.31
30-40	102.93
40-50	106.78
50-60	97.82
60-70	78.51
70-80	53.77
80-90	30.62
90-100	15.71
100-110	7.82
110-120	3.57
120-130	1.28
130-140	0.20
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	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

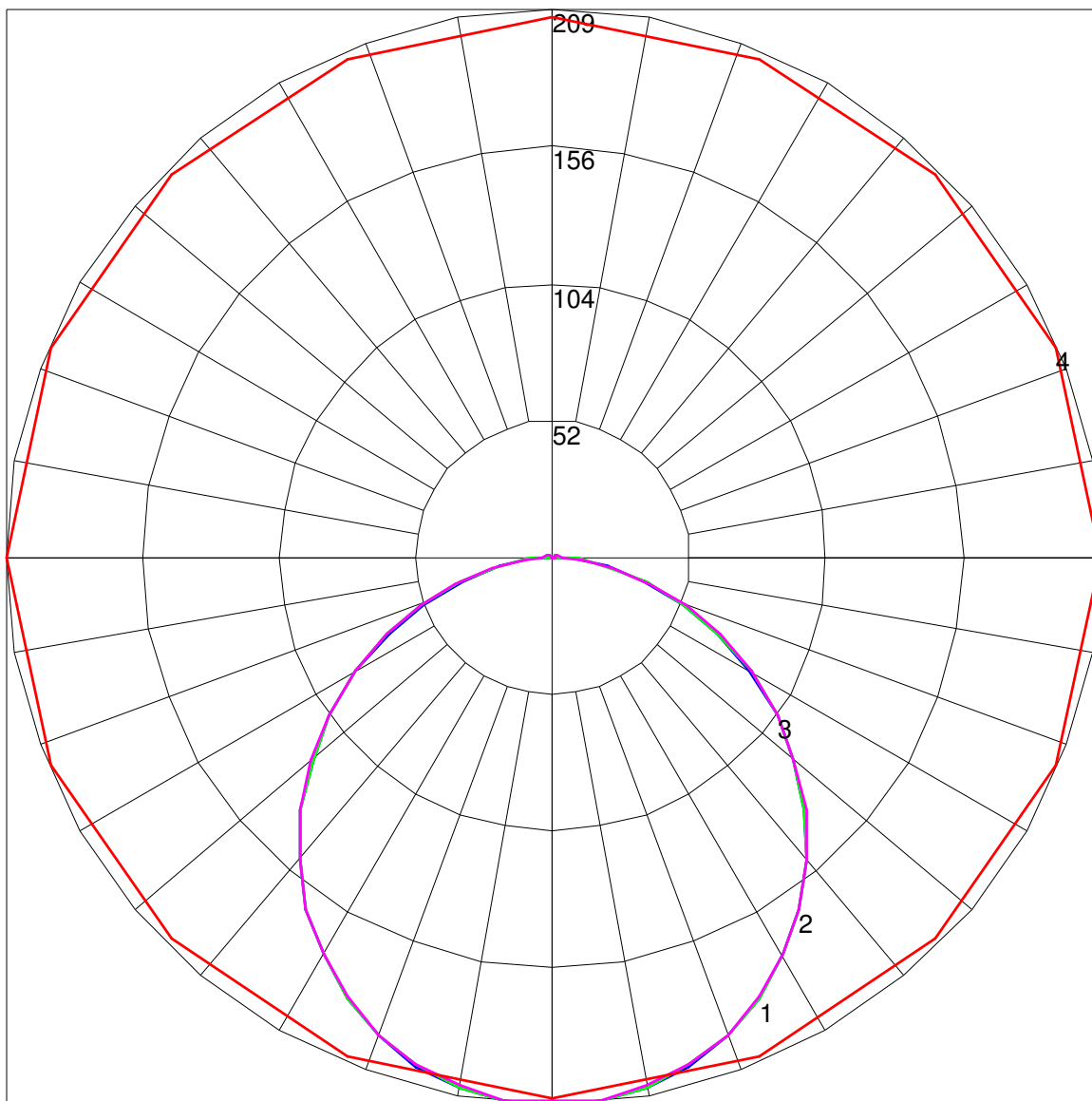
Reflectances

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	17.1	18.7	17.5	19.1	19.5	18.8	20.3	19.2	20.7	21.2
	3H	18.6	20.0	19.0	20.4	20.9	21.0	22.5	21.5	22.9	23.4
	4H	19.0	20.4	19.5	20.8	21.3	22.1	23.5	22.6	23.9	24.4
	6H	19.3	20.6	19.8	21.1	21.5	23.3	24.5	23.7	25.0	25.5
	8H	19.4	20.6	19.9	21.1	21.6	23.9	25.1	24.3	25.5	26.0
	12H	19.4	20.6	19.9	21.0	21.6	24.5	25.6	25.0	26.1	26.6
4H	2H	17.9	19.2	18.3	19.7	20.1	19.2	20.5	19.6	21.0	21.4
	3H	19.6	20.7	20.0	21.2	21.7	21.7	22.8	22.2	23.3	23.8
	4H	20.1	21.2	20.6	21.7	22.2	22.9	24.0	23.4	24.5	25.0
	6H	20.5	21.5	21.0	22.0	22.5	24.2	25.2	24.8	25.7	26.2
	8H	20.6	21.5	21.1	22.0	22.6	24.9	25.8	25.4	26.3	26.9
	12H	20.7	21.5	21.2	22.0	22.6	25.7	26.5	26.2	27.0	27.6
8H	4H	20.7	21.6	21.2	22.1	22.6	23.1	24.0	23.6	24.5	25.1
	6H	21.2	21.9	21.7	22.5	23.1	24.6	25.3	25.1	25.9	26.4
	8H	21.4	22.0	21.9	22.6	23.2	25.4	26.1	25.9	26.6	27.2
	12H	21.5	22.1	22.0	22.6	23.3	26.3	26.9	26.8	27.4	28.1
12H	4H	20.8	21.6	21.4	22.2	22.7	23.1	23.9	23.7	24.5	25.0
	6H	21.4	22.1	22.0	22.6	23.3	24.6	25.3	25.2	25.8	26.5
	8H	21.7	22.3	22.2	22.8	23.5	25.5	26.1	26.0	26.6	27.3

Maximum UGR = 28.1

POLAR GRAPH



Maximum Candela = 208.559 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.)