



IES INDOOR REPORT

PHOTOMETRIC FILENAME : SL-2-L10-850-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-L10-850-RD-DIM-UNV
 [LAMPCAT] 22 INCH LED ARRAY

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2098
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	118
Total Luminaire Watts	17.8
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)	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	25643	20772	19887
55	24087	18548	17939
65	21270	15901	15963
75	17513	13035	14208
85	8834	10727	12794

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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	660.673	660.673	660.673	660.673	660.673
5	662.836	659.592	655.267	654.185	655.267
10	653.104	649.860	645.535	645.535	647.697
15	639.047	635.803	631.478	632.559	632.559
20	617.421	614.177	608.771	613.096	614.177
25	590.389	587.145	586.064	589.307	591.470
30	556.868	556.868	556.868	561.194	560.112
35	521.186	521.186	521.186	525.511	528.755
40	477.934	479.015	480.096	487.665	491.991
45	431.438	434.682	437.926	446.576	449.820
50	380.617	383.861	391.430	404.405	410.893
55	331.958	333.040	347.097	357.910	367.641
60	275.731	281.137	300.601	321.146	327.633
65	219.503	228.154	250.861	273.568	283.300
70	167.601	176.252	204.365	232.479	241.129
75	114.618	129.756	161.113	192.471	205.447
80	67.040	83.260	125.431	156.788	170.845
85	22.707	52.984	91.910	123.268	137.325
90	0.000	29.195	68.122	96.236	107.049
95	0.000	15.138	46.496	74.610	84.341
100	0.000	7.569	32.439	55.146	64.878
105	0.000	4.325	22.707	40.008	48.658
110	0.000	3.244	15.138	29.195	34.602
115	0.000	2.163	9.732	20.545	25.951
120	0.000	0.000	5.406	12.976	16.219
125	0.000	0.000	4.325	8.650	10.813
130	0.000	0.000	0.000	5.406	6.488
135	0.000	0.000	0.000	0.000	4.325
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	241.22	N.A.	11.50
0-30	512.34	N.A.	24.40
0-40	839.47	N.A.	40.00
0-60	1489.73	N.A.	71.00
0-80	1910.15	N.A.	91.00
0-90	2007.46	N.A.	95.70
10-90	1945.03	N.A.	92.70
20-40	598.25	N.A.	28.50
20-50	937.62	N.A.	44.70
40-70	899.78	N.A.	42.90
60-80	420.43	N.A.	20.00
70-80	170.90	N.A.	8.10
80-90	97.31	N.A.	4.60
90-110	74.77	N.A.	3.60
90-120	86.12	N.A.	4.10
90-130	90.18	N.A.	4.30
90-150	90.83	N.A.	4.30
90-180	90.83	N.A.	4.30
110-180	16.06	N.A.	0.80
0-180	2098.29	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	62.43
10-20	178.79
20-30	271.11
30-40	327.14
40-50	339.36
50-60	310.89
60-70	249.53
70-80	170.90
80-90	97.31
90-100	49.91
100-110	24.86
110-120	11.35
120-130	4.06
130-140	0.65
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

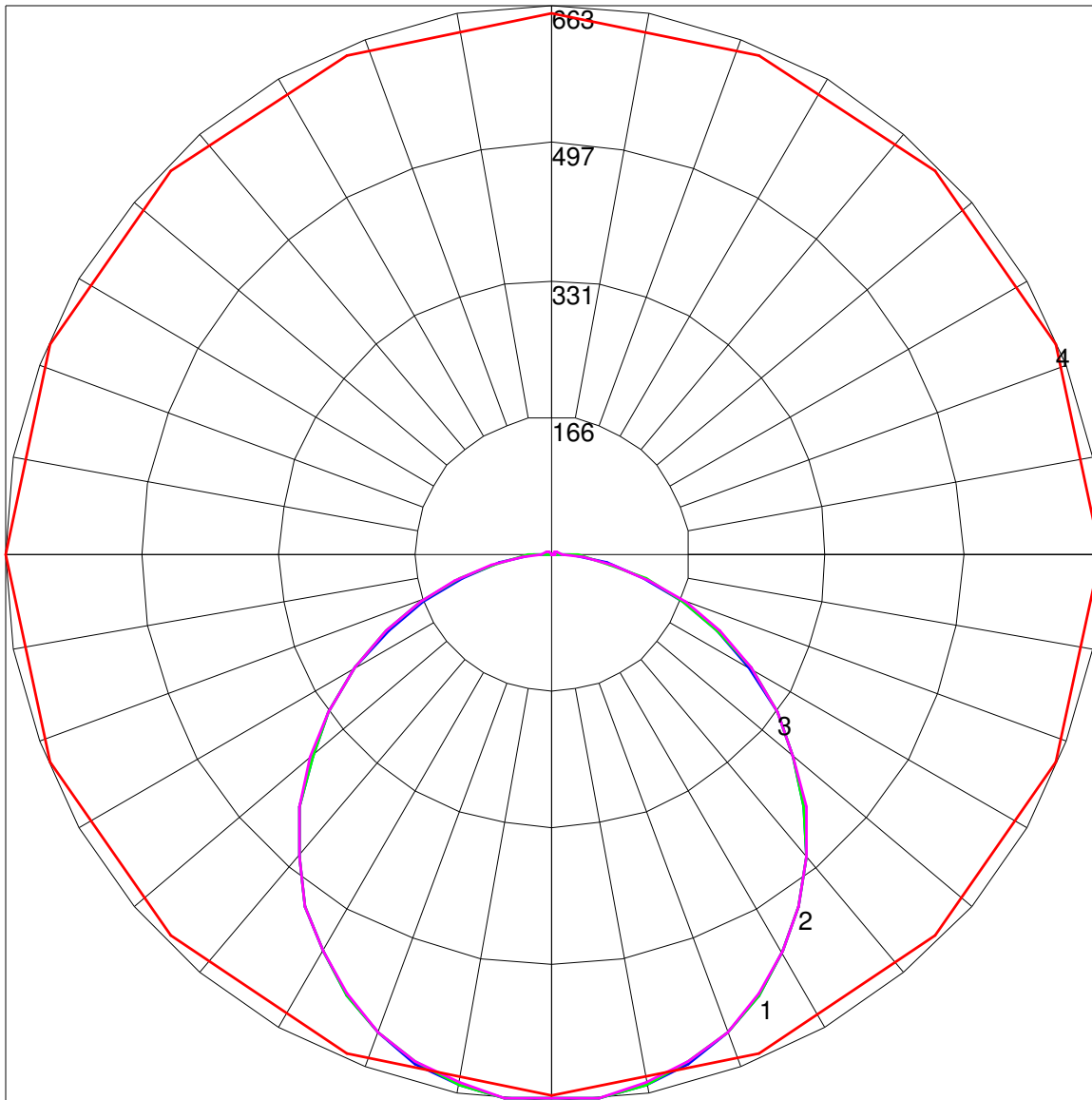
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	21.1	22.7	21.5	23.1	23.5	22.8	24.3	23.2	24.7	25.2
	3H	22.6	24.0	23.0	24.4	24.9	25.0	26.5	25.5	26.9	27.4
	4H	23.0	24.4	23.5	24.8	25.3	26.1	27.5	26.6	27.9	28.4
	6H	23.3	24.6	23.8	25.0	25.5	27.3	28.5	27.7	29.0	29.5
	8H	23.4	24.6	23.9	25.1	25.6	27.9	29.1	28.3	29.5	30.0
	12H	23.4	24.6	23.9	25.0	25.6	28.5	29.6	29.0	30.1	30.6
4H	2H	21.9	23.2	22.3	23.7	24.1	23.2	24.5	23.6	25.0	25.4
	3H	23.6	24.7	24.0	25.2	25.7	25.7	26.8	26.2	27.3	27.8
	4H	24.1	25.2	24.6	25.7	26.2	26.9	28.0	27.4	28.5	29.0
	6H	24.5	25.5	25.0	26.0	26.5	28.2	29.2	28.8	29.7	30.2
	8H	24.6	25.5	25.1	26.0	26.6	28.9	29.8	29.4	30.3	30.9
	12H	24.7	25.5	25.2	26.0	26.6	29.7	30.5	30.2	31.0	31.6
8H	4H	24.7	25.6	25.2	26.1	26.6	27.1	28.0	27.6	28.5	29.1
	6H	25.2	25.9	25.7	26.5	27.1	28.6	29.3	29.1	29.9	30.4
	8H	25.4	26.0	25.9	26.6	27.2	29.4	30.1	29.9	30.6	31.2
	12H	25.5	26.1	26.0	26.6	27.3	30.3	30.9	30.8	31.4	32.1
12H	4H	24.8	25.6	25.4	26.2	26.7	27.1	27.9	27.7	28.5	29.0
	6H	25.4	26.1	26.0	26.6	27.3	28.6	29.3	29.2	29.8	30.5
	8H	25.7	26.3	26.2	26.8	27.5	29.5	30.1	30.0	30.6	31.3

Maximum UGR = 32.1

POLAR GRAPH



Maximum Candela = 662.836 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.)