



IES INDOOR REPORT

PHOTOMETRIC FILENAME : SL-2-L10-950-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-L10-950-RD-DIM-UNV
 [LAMPCAT] 22 INCH LED ARRAY

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1762
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	99
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	21530	17441	16697
55	20224	15573	15062
65	17859	13351	13403
75	14705	10944	11929
85	7418	9006	10742

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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	554.716	554.716	554.716	554.716	554.716
5	556.532	553.808	550.177	549.269	550.177
10	548.361	545.637	542.006	542.006	543.822
15	536.559	533.835	530.203	531.111	531.111
20	518.401	515.677	511.138	514.769	515.677
25	495.704	492.980	492.072	494.796	496.612
30	467.559	467.559	467.559	471.191	470.283
35	437.599	437.599	437.599	441.231	443.955
40	401.284	402.192	403.100	409.455	413.087
45	362.245	364.969	367.692	374.955	377.679
50	319.575	322.298	328.653	339.548	344.995
55	278.720	279.628	291.430	300.509	308.680
60	231.510	236.049	252.391	269.641	275.088
65	184.300	191.563	210.629	229.694	237.865
70	140.722	147.985	171.590	195.195	202.458
75	96.236	108.946	135.274	161.603	172.498
80	56.289	69.907	105.314	131.643	143.445
85	19.066	44.486	77.170	103.499	115.301
90	0.000	24.513	57.197	80.802	89.880
95	0.000	12.710	39.039	62.644	70.815
100	0.000	6.355	27.236	46.302	54.473
105	0.000	3.632	19.066	33.592	40.855
110	0.000	2.724	12.710	24.513	29.052
115	0.000	1.816	8.171	17.250	21.789
120	0.000	0.000	4.539	10.895	13.618
125	0.000	0.000	3.632	7.263	9.079
130	0.000	0.000	0.000	4.539	5.447
135	0.000	0.000	0.000	0.000	3.632
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	202.54	N.A.	11.50
0-30	430.17	N.A.	24.40
0-40	704.84	N.A.	40.00
0-60	1250.81	N.A.	71.00
0-80	1603.81	N.A.	91.00
0-90	1685.51	N.A.	95.70
10-90	1633.09	N.A.	92.70
20-40	502.31	N.A.	28.50
20-50	787.24	N.A.	44.70
40-70	755.47	N.A.	42.90
60-80	353.00	N.A.	20.00
70-80	143.49	N.A.	8.10
80-90	81.70	N.A.	4.60
90-110	62.78	N.A.	3.60
90-120	72.31	N.A.	4.10
90-130	75.72	N.A.	4.30
90-150	76.26	N.A.	4.30
90-180	76.26	N.A.	4.30
110-180	13.49	N.A.	0.80
0-180	1761.77	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	52.42
10-20	150.12
20-30	227.63
30-40	274.67
40-50	284.94
50-60	261.03
60-70	209.51
70-80	143.49
80-90	81.70
90-100	41.91
100-110	20.87
110-120	9.53
120-130	3.41
130-140	0.54
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	58	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

X=2H	Y=2H	20.5	22.1	20.9	22.5	22.9	22.2	23.7	22.6	24.1	24.6
	3H	22.0	23.4	22.4	23.8	24.3	24.4	25.9	24.9	26.3	26.7
	4H	22.4	23.8	22.9	24.2	24.7	25.5	26.9	26.0	27.3	27.8
	6H	22.7	24.0	23.2	24.4	24.9	26.7	27.9	27.1	28.4	28.9
	8H	22.8	24.0	23.3	24.5	25.0	27.2	28.5	27.7	28.9	29.4
	12H	22.8	24.0	23.3	24.4	25.0	27.9	29.0	28.4	29.5	30.0

UGR Viewed Endwise

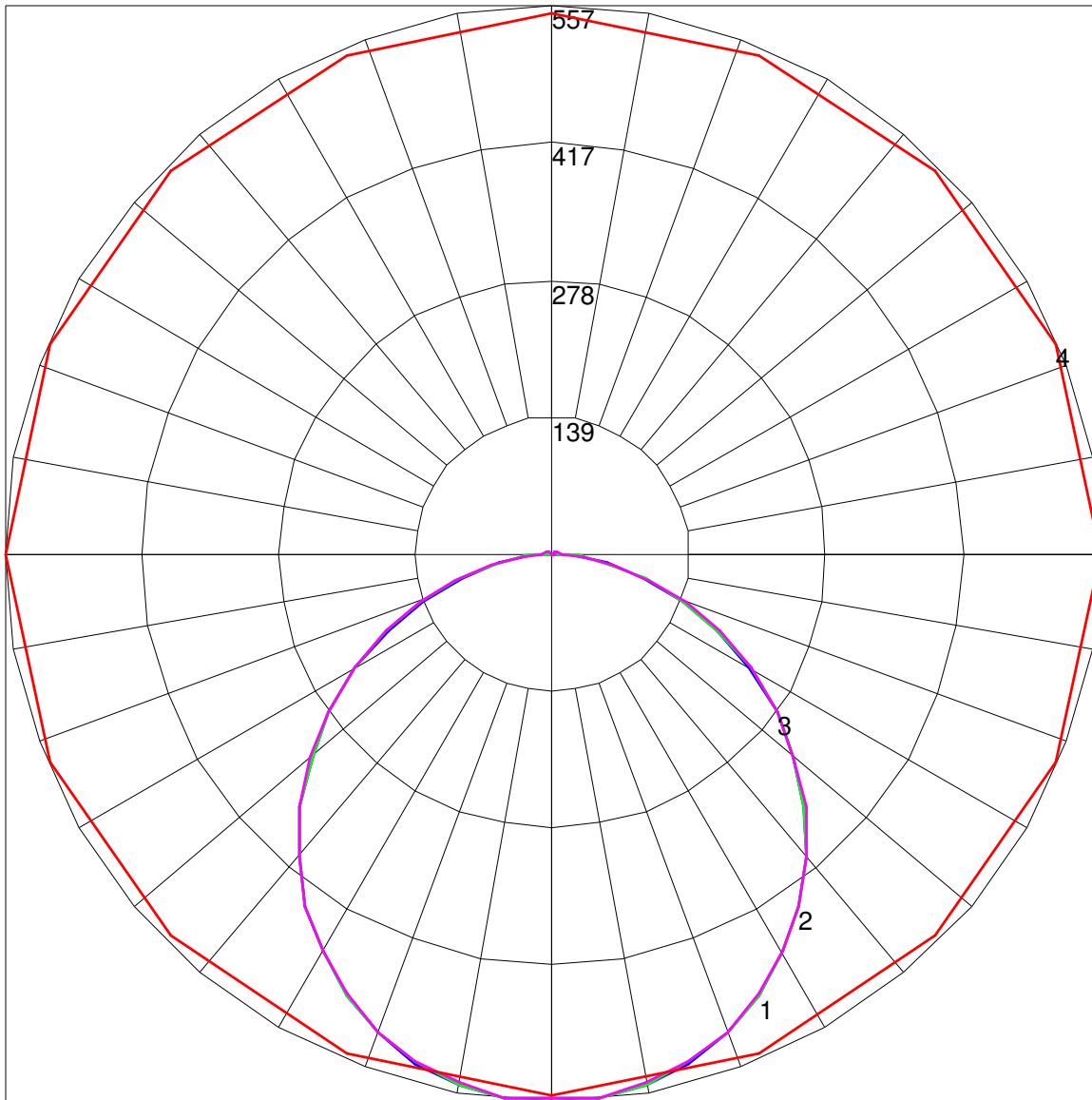
4H	2H	21.3	22.6	21.7	23.1	23.5	22.6	23.9	23.0	24.4	24.8
	3H	22.9	24.1	23.4	24.6	25.1	25.1	26.2	25.6	26.7	27.2
	4H	23.5	24.6	24.0	25.1	25.6	26.3	27.4	26.8	27.9	28.4
	6H	23.9	24.9	24.4	25.4	25.9	27.6	28.6	28.2	29.1	29.6
	8H	24.0	24.9	24.5	25.4	26.0	28.3	29.2	28.8	29.7	30.3
	12H	24.1	24.9	24.6	25.4	26.0	29.1	29.9	29.6	30.4	31.0

8H	4H	24.1	25.0	24.6	25.5	26.0	26.5	27.4	27.0	27.9	28.5
	6H	24.6	25.3	25.1	25.9	26.5	28.0	28.7	28.5	29.3	29.8
	8H	24.8	25.4	25.3	26.0	26.6	28.8	29.5	29.3	30.0	30.6
	12H	24.9	25.5	25.4	26.0	26.7	29.7	30.3	30.2	30.8	31.5

12H	4H	24.2	25.0	24.8	25.6	26.1	26.5	27.3	27.1	27.9	28.4
	6H	24.8	25.5	25.4	26.0	26.7	28.0	28.7	28.6	29.2	29.8
	8H	25.1	25.7	25.6	26.2	26.9	28.9	29.5	29.4	30.0	30.7

Maximum UGR = 31.5

POLAR GRAPH



Maximum Candela = 556.532 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.)