



IES INDOOR REPORT

PHOTOMETRIC FILENAME : SL-2-L10-927-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-L10-927-RD-DIM-UNV
 [LAMPCAT] 22 INCH LED ARRAY

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1584
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	89
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	19353	15677	15009
55	18179	13998	13539
65	16053	12001	12048
75	13218	9838	10723
85	6667	8096	9655

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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	498.621	498.621	498.621	498.621	498.621
5	500.253	497.805	494.541	493.725	494.541
10	492.909	490.461	487.196	487.196	488.828
15	482.300	479.852	476.587	477.403	477.403
20	465.978	463.530	459.450	462.714	463.530
25	445.577	443.128	442.312	444.760	446.393
30	420.278	420.278	420.278	423.543	422.726
35	393.348	393.348	393.348	396.612	399.060
40	360.705	361.521	362.337	368.049	371.314
45	325.614	328.062	330.510	337.039	339.487
50	287.258	289.706	295.419	305.212	310.108
55	250.535	251.351	261.960	270.121	277.465
60	208.099	212.179	226.869	242.374	247.270
65	165.663	172.192	189.329	206.467	213.811
70	126.491	133.020	154.238	175.456	181.985
75	86.504	97.929	121.595	145.261	155.054
80	50.597	62.838	94.665	118.331	128.940
85	17.138	39.988	69.366	93.032	103.641
90	0.000	22.034	51.413	72.631	80.791
95	0.000	11.425	35.091	56.309	63.654
100	0.000	5.713	24.482	41.620	48.964
105	0.000	3.264	17.138	30.195	36.723
110	0.000	2.448	11.425	22.034	26.114
115	0.000	1.632	7.345	15.505	19.586
120	0.000	0.000	4.080	9.793	12.241
125	0.000	0.000	3.264	6.529	8.161
130	0.000	0.000	0.000	4.080	4.896
135	0.000	0.000	0.000	0.000	3.264
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	182.06	N.A.	11.50
0-30	386.67	N.A.	24.40
0-40	633.57	N.A.	40.00
0-60	1124.32	N.A.	71.00
0-80	1441.63	N.A.	91.00
0-90	1515.06	N.A.	95.70
10-90	1467.95	N.A.	92.70
20-40	451.51	N.A.	28.50
20-50	707.63	N.A.	44.70
40-70	679.08	N.A.	42.90
60-80	317.30	N.A.	20.00
70-80	128.98	N.A.	8.10
80-90	73.44	N.A.	4.60
90-110	56.43	N.A.	3.60
90-120	65.00	N.A.	4.10
90-130	68.06	N.A.	4.30
90-150	68.55	N.A.	4.30
90-180	68.55	N.A.	4.30
110-180	12.12	N.A.	0.80
0-180	1583.62	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	47.12
10-20	134.94
20-30	204.61
30-40	246.90
40-50	256.12
50-60	234.63
60-70	188.32
70-80	128.98
80-90	73.44
90-100	37.67
100-110	18.76
110-120	8.57
120-130	3.07
130-140	0.49
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	88	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	67	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	29	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	20.1	21.7	20.5	22.1	22.5	21.8	23.3	22.2	23.7	24.1
	3H	21.6	23.0	22.0	23.4	23.9	24.0	25.5	24.5	25.9	26.3
	4H	22.0	23.4	22.5	23.8	24.3	25.1	26.5	25.6	26.9	27.4
	6H	22.3	23.6	22.8	24.0	24.5	26.3	27.5	26.7	28.0	28.5
	8H	22.4	23.6	22.9	24.1	24.6	26.8	28.1	27.3	28.5	29.0
	12H	22.4	23.6	22.9	24.0	24.6	27.5	28.6	28.0	29.1	29.6

UGR Viewed Endwise

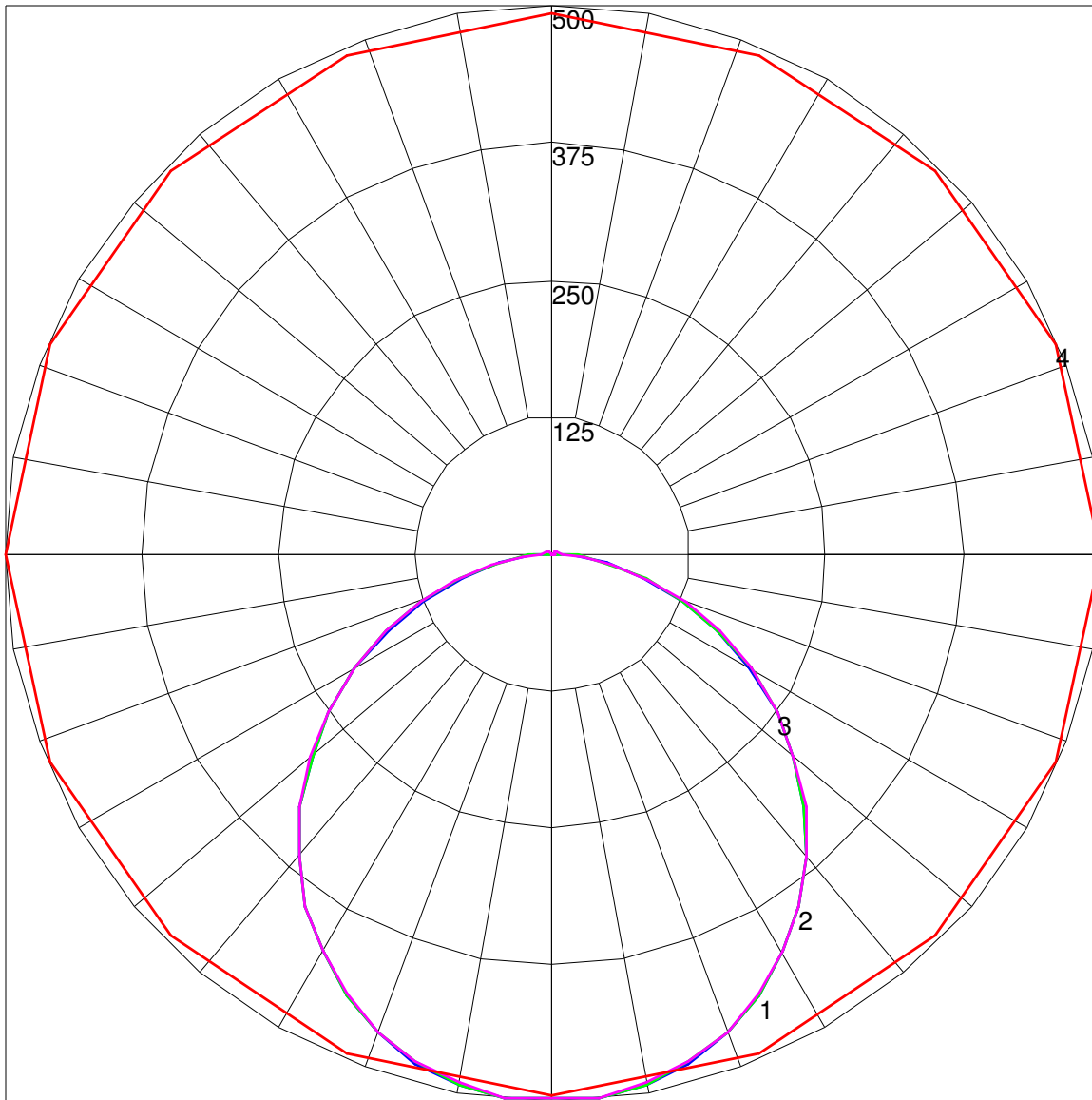
4H	2H	20.9	22.2	21.3	22.7	23.1	22.2	23.5	22.6	24.0	24.4
	3H	22.5	23.7	23.0	24.2	24.7	24.7	25.8	25.2	26.3	26.8
	4H	23.1	24.2	23.6	24.7	25.2	25.9	27.0	26.4	27.5	28.0
	6H	23.5	24.5	24.0	25.0	25.5	27.2	28.2	27.8	28.7	29.2
	8H	23.6	24.5	24.1	25.0	25.6	27.9	28.8	28.4	29.3	29.9
	12H	23.7	24.5	24.2	25.0	25.6	28.7	29.4	29.2	30.0	30.6

8H	4H	23.7	24.6	24.2	25.1	25.6	26.1	27.0	26.6	27.5	28.1
	6H	24.2	24.9	24.7	25.5	26.1	27.6	28.3	28.1	28.9	29.4
	8H	24.4	25.0	24.9	25.6	26.2	28.4	29.0	28.9	29.6	30.2
	12H	24.5	25.1	25.0	25.6	26.3	29.3	29.9	29.8	30.4	31.1

12H	4H	23.8	24.6	24.4	25.2	25.7	26.1	26.9	26.7	27.5	28.0
	6H	24.4	25.1	25.0	25.6	26.3	27.6	28.3	28.2	28.8	29.4
	8H	24.7	25.3	25.2	25.8	26.5	28.5	29.1	29.0	29.6	30.3

Maximum UGR = 31.1

POLAR GRAPH



Maximum Candela = 500.253 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.)