



IES INDOOR REPORT

PHOTOMETRIC FILENAME : SL-2-L10-827-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-L10-827-RD-DIM-UNV

[LAMPCAT] 22 INCH LED ARRAY

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1920
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	108
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	23466	19009	18198
55	22042	16973	16415
65	19464	14551	14608
75	16026	11928	13001
85	8084	9816	11707

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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	604.578	604.578	604.578	604.578	604.578
5	606.557	603.589	599.631	598.641	599.631
10	597.652	594.683	590.726	590.726	592.704
15	584.789	581.820	577.862	578.852	578.852
20	564.999	562.030	557.083	561.041	562.030
25	540.262	537.293	536.304	539.272	541.251
30	509.587	509.587	509.587	513.545	512.556
35	476.934	476.934	476.934	480.892	483.861
40	437.355	438.344	439.334	446.260	450.218
45	394.806	397.775	400.743	408.659	411.628
50	348.300	351.269	358.195	370.069	376.006
55	303.773	304.763	317.626	327.521	336.427
60	252.320	257.267	275.078	293.879	299.815
65	200.866	208.782	229.562	250.341	259.246
70	153.371	161.287	187.014	212.740	220.656
75	104.886	118.739	147.434	176.129	188.003
80	61.348	76.191	114.781	143.476	156.339
85	20.779	48.485	84.107	112.802	125.665
90	0.000	26.716	62.338	88.065	97.960
95	0.000	13.853	42.548	68.275	77.180
100	0.000	6.926	29.685	50.464	59.369
105	0.000	3.958	20.779	36.611	44.527
110	0.000	2.968	13.853	26.716	31.664
115	0.000	1.979	8.905	18.800	23.748
120	0.000	0.000	4.947	11.874	14.842
125	0.000	0.000	3.958	7.916	9.895
130	0.000	0.000	0.000	4.947	5.937
135	0.000	0.000	0.000	0.000	3.958
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	220.74	N.A.	11.50
0-30	468.84	N.A.	24.40
0-40	768.20	N.A.	40.00
0-60	1363.24	N.A.	71.00
0-80	1747.97	N.A.	91.00
0-90	1837.02	N.A.	95.70
10-90	1779.88	N.A.	92.70
20-40	547.46	N.A.	28.50
20-50	858.01	N.A.	44.70
40-70	823.38	N.A.	42.90
60-80	384.73	N.A.	20.00
70-80	156.39	N.A.	8.10
80-90	89.04	N.A.	4.60
90-110	68.42	N.A.	3.60
90-120	78.81	N.A.	4.10
90-130	82.53	N.A.	4.30
90-150	83.12	N.A.	4.30
90-180	83.12	N.A.	4.30
110-180	14.70	N.A.	0.80
0-180	1920.13	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	57.13
10-20	163.61
20-30	248.10
30-40	299.36
40-50	310.55
50-60	284.49
60-70	228.34
70-80	156.39
80-90	89.04
90-100	45.68
100-110	22.75
110-120	10.39
120-130	3.72
130-140	0.59
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

X=2H	Y=2H	20.8	22.4	21.2	22.8	23.2	22.5	24.0	22.9	24.4	24.9
	3H	22.3	23.7	22.7	24.1	24.6	24.7	26.2	25.2	26.6	27.0
	4H	22.7	24.1	23.2	24.5	25.0	25.8	27.2	26.3	27.6	28.1
	6H	23.0	24.3	23.5	24.7	25.2	27.0	28.2	27.4	28.7	29.2
	8H	23.1	24.3	23.6	24.8	25.3	27.5	28.8	28.0	29.2	29.7
	12H	23.1	24.3	23.6	24.7	25.3	28.2	29.3	28.7	29.8	30.3

UGR Viewed Endwise

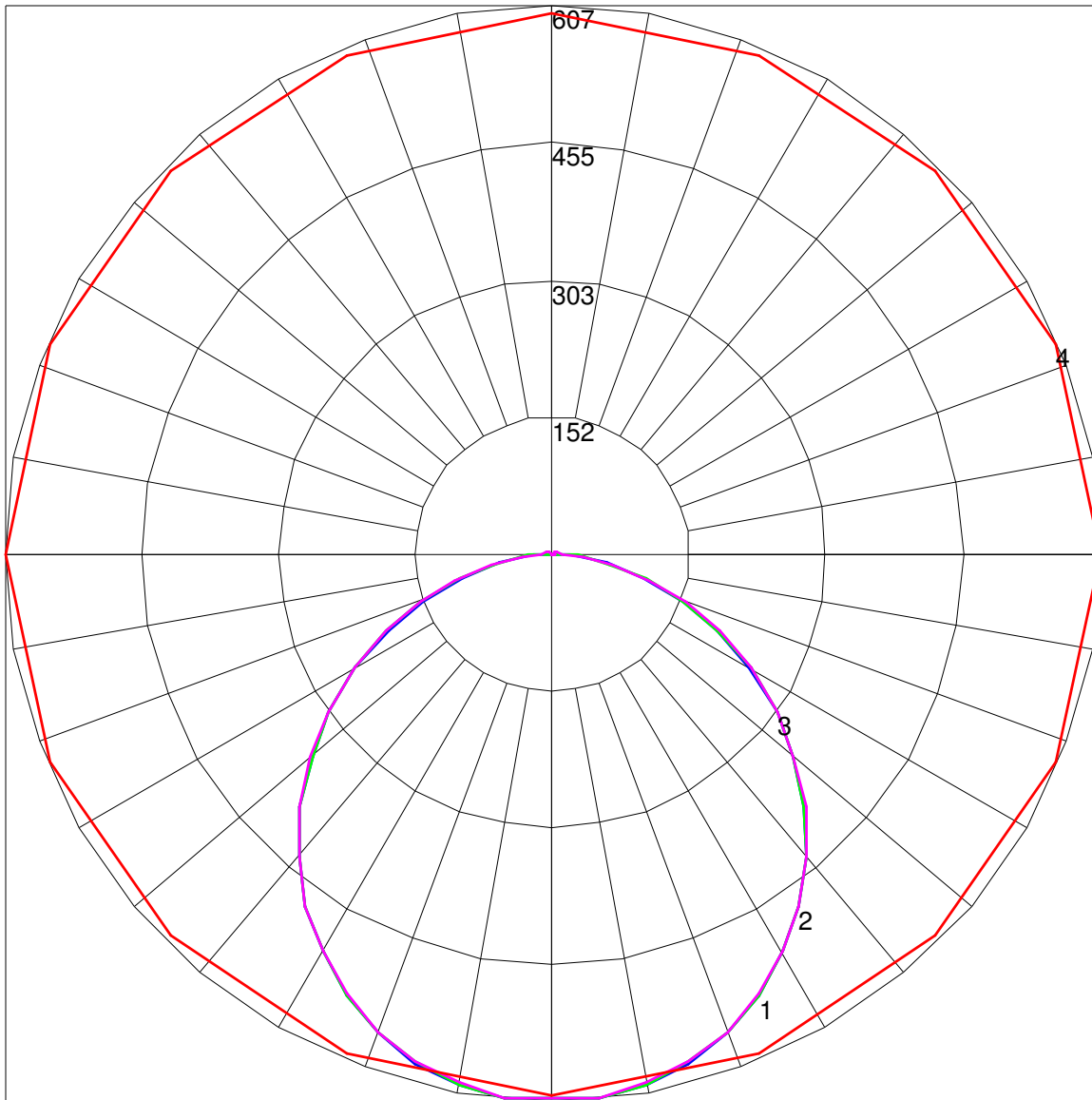
4H	2H	21.6	22.9	22.0	23.4	23.8	22.9	24.2	23.3	24.7	25.1
	3H	23.3	24.4	23.7	24.9	25.4	25.4	26.5	25.9	27.0	27.5
	4H	23.8	24.9	24.3	25.4	25.9	26.6	27.7	27.1	28.2	28.7
	6H	24.2	25.2	24.7	25.7	26.2	27.9	28.9	28.5	29.4	29.9
	8H	24.3	25.2	24.8	25.7	26.3	28.6	29.5	29.1	30.0	30.6
	12H	24.4	25.2	24.9	25.7	26.3	29.4	30.2	29.9	30.7	31.3

8H	4H	24.4	25.3	24.9	25.8	26.3	26.8	27.7	27.3	28.2	28.8
	6H	24.9	25.6	25.4	26.2	26.8	28.3	29.0	28.8	29.6	30.1
	8H	25.1	25.7	25.6	26.3	26.9	29.1	29.8	29.6	30.3	30.9
	12H	25.2	25.8	25.7	26.3	27.0	30.0	30.6	30.5	31.1	31.8

12H	4H	24.5	25.3	25.1	25.9	26.4	26.8	27.6	27.4	28.2	28.7
	6H	25.1	25.8	25.7	26.3	27.0	28.3	29.0	28.9	29.5	30.2
	8H	25.4	26.0	25.9	26.5	27.2	29.2	29.8	29.7	30.3	31.0

Maximum UGR = 31.8

POLAR GRAPH



Maximum Candela = 606.557 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.)