



IES INDOOR REPORT
PHOTOMETRIC FILENAME : SL-4-L5-827-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] 48 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-4-L5-827-RD-DIM-UNV
[LAMPCAT] 22 INCH LED ARRAY

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1961
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	113
Total Luminaire Watts	17.3
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)	4.00 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	12121	9769	9292
55	11440	8740	8382
65	10183	7513	7459
75	8527	6184	6639
85	4617	5127	5978

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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	617.403	617.403	617.403	617.403	617.403
5	619.424	616.392	612.350	611.340	612.350
10	610.329	607.298	603.256	603.256	605.277
15	597.193	594.162	590.120	591.130	591.130
20	576.983	573.952	568.900	572.942	573.952
25	551.722	548.690	547.680	550.711	552.732
30	520.397	520.397	520.397	524.439	523.428
35	487.051	487.051	487.051	491.093	494.124
40	446.632	447.642	448.653	455.726	459.768
45	403.181	406.213	409.244	417.328	420.359
50	355.689	358.720	365.793	377.919	383.982
55	310.217	311.228	324.364	334.469	343.563
60	257.672	262.725	280.913	300.112	306.175
65	205.127	213.211	234.431	255.651	264.745
70	156.624	164.708	190.981	217.253	225.337
75	107.111	121.257	150.561	179.865	191.991
80	62.650	77.807	117.216	146.519	159.656
85	21.220	49.513	85.891	115.195	128.331
90	0.000	27.283	63.660	89.933	100.037
95	0.000	14.147	43.451	69.723	78.817
100	0.000	7.073	30.314	51.534	60.629
105	0.000	4.042	21.220	37.388	45.472
110	0.000	3.031	14.147	27.283	32.335
115	0.000	2.021	9.094	19.199	24.251
120	0.000	0.000	5.052	12.126	15.157
125	0.000	0.000	4.042	8.084	10.105
130	0.000	0.000	0.000	5.052	6.063
135	0.000	0.000	0.000	0.000	4.042
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	225.42	N.A.	11.50
0-30	478.78	N.A.	24.40
0-40	784.49	N.A.	40.00
0-60	1392.16	N.A.	71.00
0-80	1785.05	N.A.	91.00
0-90	1875.98	N.A.	95.70
10-90	1817.64	N.A.	92.70
20-40	559.07	N.A.	28.50
20-50	876.21	N.A.	44.70
40-70	840.85	N.A.	42.90
60-80	392.89	N.A.	20.00
70-80	159.71	N.A.	8.10
80-90	90.93	N.A.	4.60
90-110	69.87	N.A.	3.60
90-120	80.48	N.A.	4.10
90-130	84.28	N.A.	4.30
90-150	84.88	N.A.	4.30
90-180	84.88	N.A.	4.30
110-180	15.01	N.A.	0.80
0-180	1960.86	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	58.34
10-20	167.08
20-30	253.36
30-40	305.71
40-50	317.14
50-60	290.53
60-70	233.18
70-80	159.71
80-90	90.93
90-100	46.64
100-110	23.23
110-120	10.61
120-130	3.80
130-140	0.60
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	18.4	20.0	18.8	20.4	20.8	UGR Viewed Endwise			
	3H	19.9	21.3	20.3	21.7	22.2	20.1	21.7	20.5	22.1
	4H	20.3	21.7	20.8	22.1	22.6	22.4	23.8	22.8	24.3
	6H	20.6	21.9	21.1	22.4	22.8	23.5	24.9	24.0	25.3
	8H	20.7	21.9	21.2	22.4	22.9	24.7	25.9	25.1	26.4
	12H	20.7	21.9	21.2	22.3	22.9	25.2	26.5	25.7	26.9

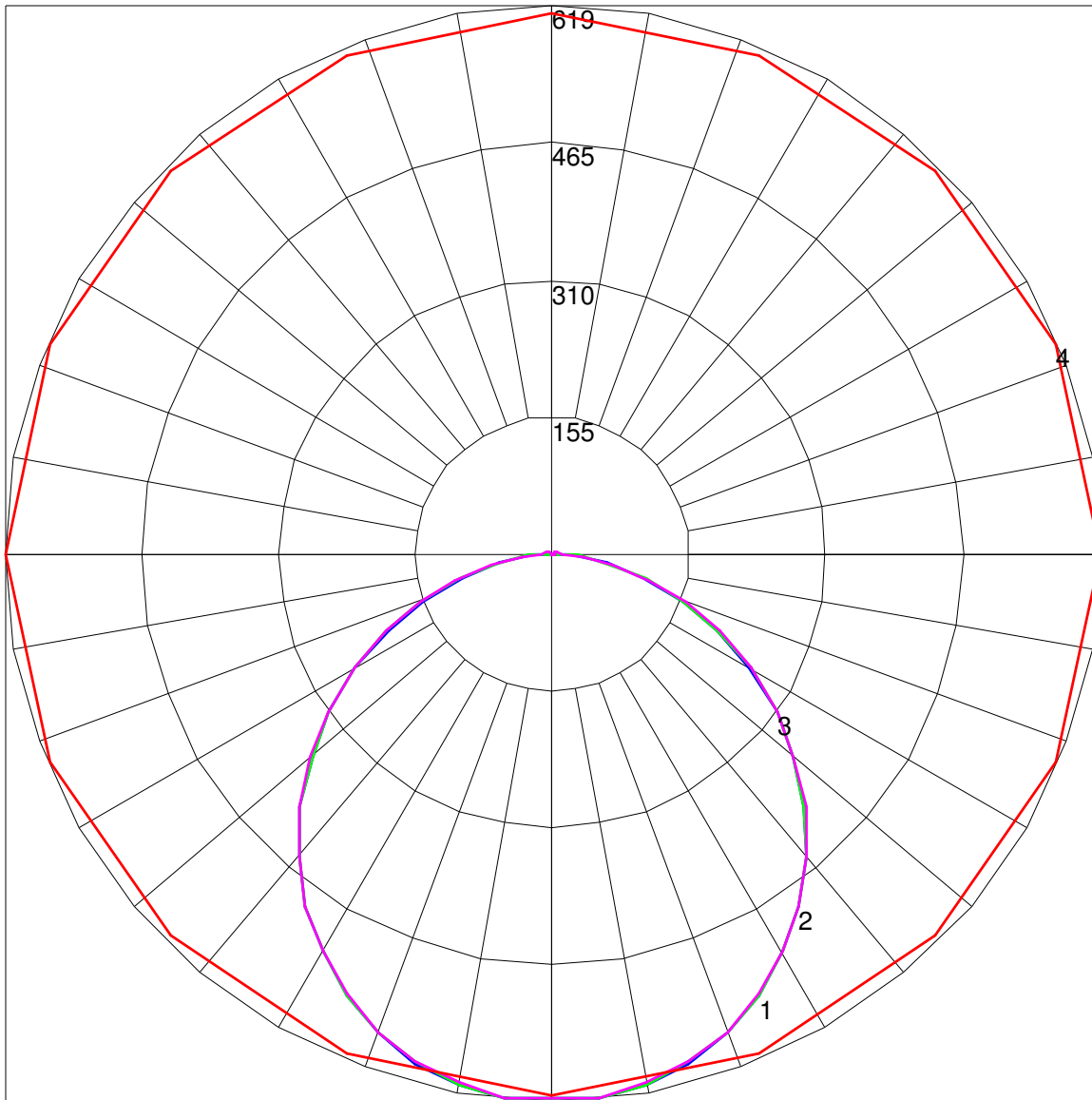
4H	2H	19.2	20.5	19.6	21.0	21.4	25.9	27.1	26.4	27.5
	3H	20.9	22.0	21.3	22.5	23.0	20.1	21.7	20.5	22.1
	4H	21.4	22.5	21.9	23.0	23.5	22.4	23.8	22.8	24.3
	6H	21.8	22.8	22.4	23.3	23.8	23.5	24.9	24.0	25.3
	8H	21.9	22.8	22.5	23.3	23.9	24.7	25.9	25.1	26.4
	12H	22.0	22.8	22.5	23.3	23.9	25.2	26.5	25.7	26.9

8H	4H	22.0	22.9	22.5	23.4	23.9	25.9	27.1	26.4	27.5
	6H	22.5	23.3	23.1	23.8	24.4	20.1	21.7	20.5	22.1
	8H	22.7	23.4	23.2	23.9	24.5	22.4	23.8	22.8	24.3
	12H	22.8	23.4	23.4	23.9	24.6	23.5	24.9	24.0	25.3

12H	4H	22.1	22.9	22.7	23.5	24.0	25.9	27.1	26.4	27.5
	6H	22.7	23.4	23.3	24.0	24.6	20.1	21.7	20.5	22.1
	8H	23.0	23.6	23.5	24.1	24.8	22.4	23.8	22.8	24.3

Maximum UGR = 29.5

POLAR GRAPH



Maximum Candela = 619.424 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.)