



IES INDOOR REPORT
PHOTOMETRIC FILENAME : SL-2-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] 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-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	980
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	104
Total Luminaire Watts	9.4
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	11982	9706	9292
55	11255	8666	8382
65	9938	7430	7459
75	8183	6091	6639
85	4128	5012	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	308.701	308.701	308.701	308.701	308.701
5	309.712	308.196	306.175	305.670	306.175
10	305.165	303.649	301.628	301.628	302.638
15	298.597	297.081	295.060	295.565	295.565
20	288.492	286.976	284.450	286.471	286.976
25	275.861	274.345	273.840	275.356	276.366
30	260.198	260.198	260.198	262.219	261.714
35	243.525	243.525	243.525	245.546	247.062
40	223.316	223.821	224.326	227.863	229.884
45	201.591	203.106	204.622	208.664	210.180
50	177.844	179.360	182.897	188.960	191.991
55	155.109	155.614	162.182	167.234	171.781
60	128.836	131.362	140.457	150.056	153.088
65	102.564	106.606	117.216	127.826	132.373
70	78.312	82.354	95.490	108.626	112.668
75	53.555	60.629	75.281	89.933	95.996
80	31.325	38.903	58.608	73.260	79.828
85	10.610	24.757	42.945	57.597	64.165
90	0.000	13.641	31.830	44.966	50.019
95	0.000	7.073	21.725	34.862	39.409
100	0.000	3.537	15.157	25.767	30.314
105	0.000	2.021	10.610	18.694	22.736
110	0.000	1.516	7.073	13.641	16.168
115	0.000	1.010	4.547	9.600	12.126
120	0.000	0.000	2.526	6.063	7.579
125	0.000	0.000	2.021	4.042	5.052
130	0.000	0.000	0.000	2.526	3.031
135	0.000	0.000	0.000	0.000	2.021
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	112.71	N.A.	11.50
0-30	239.39	N.A.	24.40
0-40	392.25	N.A.	40.00
0-60	696.08	N.A.	71.00
0-80	892.52	N.A.	91.00
0-90	937.99	N.A.	95.70
10-90	908.82	N.A.	92.70
20-40	279.53	N.A.	28.50
20-50	438.10	N.A.	44.70
40-70	420.42	N.A.	42.90
60-80	196.45	N.A.	20.00
70-80	79.85	N.A.	8.10
80-90	45.47	N.A.	4.60
90-110	34.94	N.A.	3.60
90-120	40.24	N.A.	4.10
90-130	42.14	N.A.	4.30
90-150	42.44	N.A.	4.30
90-180	42.44	N.A.	4.30
110-180	7.50	N.A.	0.80
0-180	980.43	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	29.17
10-20	83.54
20-30	126.68
30-40	152.86
40-50	158.57
50-60	145.26
60-70	116.59
70-80	79.85
80-90	45.47
90-100	23.32
100-110	11.61
110-120	5.30
120-130	1.90
130-140	0.30
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	77	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	56	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	33	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

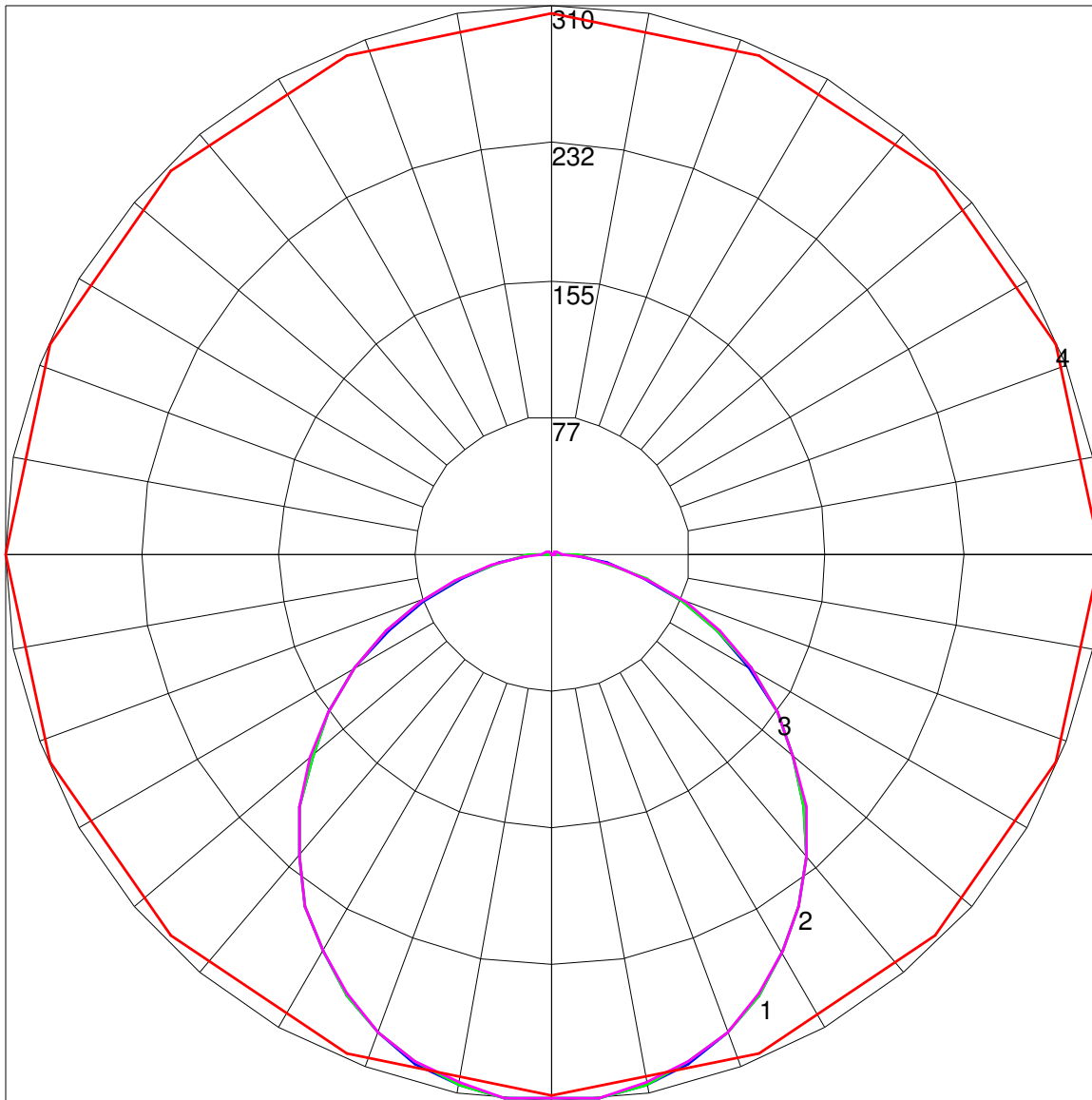
Reflectances

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	18.4	20.0	18.8	20.4	20.8	20.1	21.6	20.5	22.0	22.5
	3H	19.9	21.3	20.3	21.7	22.2	22.3	23.8	22.8	24.2	24.7
	4H	20.3	21.7	20.8	22.1	22.6	23.4	24.8	23.9	25.2	25.7
	6H	20.6	21.9	21.1	22.4	22.8	24.6	25.8	25.0	26.3	26.8
	8H	20.7	21.9	21.2	22.4	22.9	25.2	26.4	25.6	26.8	27.3
	12H	20.7	21.9	21.2	22.3	22.9	25.8	26.9	26.3	27.4	27.9
4H	2H	19.2	20.5	19.6	21.0	21.4	20.5	21.8	20.9	22.3	22.7
	3H	20.9	22.0	21.3	22.5	23.0	23.0	24.1	23.5	24.6	25.1
	4H	21.4	22.5	21.9	23.0	23.5	24.2	25.3	24.7	25.8	26.3
	6H	21.8	22.8	22.3	23.3	23.8	25.5	26.5	26.1	27.0	27.5
	8H	21.9	22.8	22.4	23.3	23.9	26.2	27.1	26.7	27.6	28.2
	12H	22.0	22.8	22.5	23.3	23.9	27.0	27.8	27.5	28.3	28.9
8H	4H	22.0	22.9	22.5	23.4	23.9	24.4	25.3	24.9	25.8	26.4
	6H	22.5	23.2	23.1	23.8	24.4	25.9	26.6	26.4	27.2	27.8
	8H	22.7	23.3	23.2	23.9	24.5	26.7	27.4	27.2	27.9	28.5
	12H	22.8	23.4	23.3	23.9	24.6	27.6	28.2	28.2	28.7	29.4
12H	4H	22.1	22.9	22.7	23.5	24.0	24.4	25.2	25.0	25.8	26.3
	6H	22.7	23.4	23.3	23.9	24.6	25.9	26.6	26.5	27.1	27.8
	8H	23.0	23.6	23.5	24.1	24.8	26.8	27.4	27.3	27.9	28.6

Maximum UGR = 29.4

POLAR GRAPH



Maximum Candela = 309.712 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.)