



IES INDOOR REPORT

PHOTOMETRIC FILENAME : SL-6-L3-930-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] 72 INCH LED SLIMLINE ARCHITECTURAL LUMINAIRE

[MORE] 1.5" ALUM CHANNEL w/1"WIDE WHITE RADIAL ACRYLIC LENS

[MORE] 0-10V REMOTE DRIVER ENCLOSURE

[LUMCAT] SL-6-L3-930-RD-DIM-UNV

[LAMPCAT] 22 INCH LED ARRAY

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1509
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	92
Total Luminaire Watts	16.4
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)	6.00 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	6244	5024	4768
55	5903	4498	4301
65	5268	3870	3827
75	4438	3189	3406
85	2466	2651	3067

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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	475.208	475.208	475.208	475.208	475.208
5	476.763	474.430	471.319	470.541	471.319
10	469.763	467.430	464.319	464.319	465.874
15	459.652	457.319	454.208	454.986	454.986
20	444.097	441.764	437.875	440.986	441.764
25	424.654	422.320	421.543	423.876	425.431
30	400.543	400.543	400.543	403.654	402.876
35	374.877	374.877	374.877	377.988	380.322
40	343.767	344.545	345.323	350.767	353.878
45	310.324	312.657	314.990	321.212	323.546
50	273.769	276.103	281.547	290.880	295.546
55	238.770	239.548	249.659	257.436	264.436
60	198.327	202.216	216.216	230.993	235.659
65	157.884	164.106	180.439	196.772	203.771
70	120.552	126.774	146.995	167.217	173.439
75	82.442	93.330	115.885	138.440	147.773
80	48.221	59.887	90.219	112.774	122.885
85	16.333	38.110	66.109	88.664	98.775
90	0.000	20.999	48.998	69.220	76.998
95	0.000	10.889	33.443	53.665	60.665
100	0.000	5.444	23.333	39.665	46.665
105	0.000	3.111	16.333	28.777	34.999
110	0.000	2.333	10.889	20.999	24.888
115	0.000	1.556	7.000	14.777	18.666
120	0.000	0.000	3.889	9.333	11.666
125	0.000	0.000	3.111	6.222	7.778
130	0.000	0.000	0.000	3.889	4.667
135	0.000	0.000	0.000	0.000	3.111
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	173.51	N.A.	11.50
0-30	368.51	N.A.	24.40
0-40	603.82	N.A.	40.00
0-60	1071.53	N.A.	71.00
0-80	1373.93	N.A.	91.00
0-90	1443.92	N.A.	95.70
10-90	1399.02	N.A.	92.70
20-40	430.31	N.A.	28.50
20-50	674.41	N.A.	44.70
40-70	647.19	N.A.	42.90
60-80	302.40	N.A.	20.00
70-80	122.93	N.A.	8.10
80-90	69.99	N.A.	4.60
90-110	53.78	N.A.	3.60
90-120	61.95	N.A.	4.10
90-130	64.87	N.A.	4.30
90-150	65.33	N.A.	4.30
90-180	65.33	N.A.	4.30
110-180	11.55	N.A.	0.80
0-180	1509.25	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	44.91
10-20	128.60
20-30	195.01
30-40	235.30
40-50	244.10
50-60	223.61
60-70	179.48
70-80	122.93
80-90	69.99
90-100	35.90
100-110	17.88
110-120	8.17
120-130	2.92
130-140	0.46
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	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	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

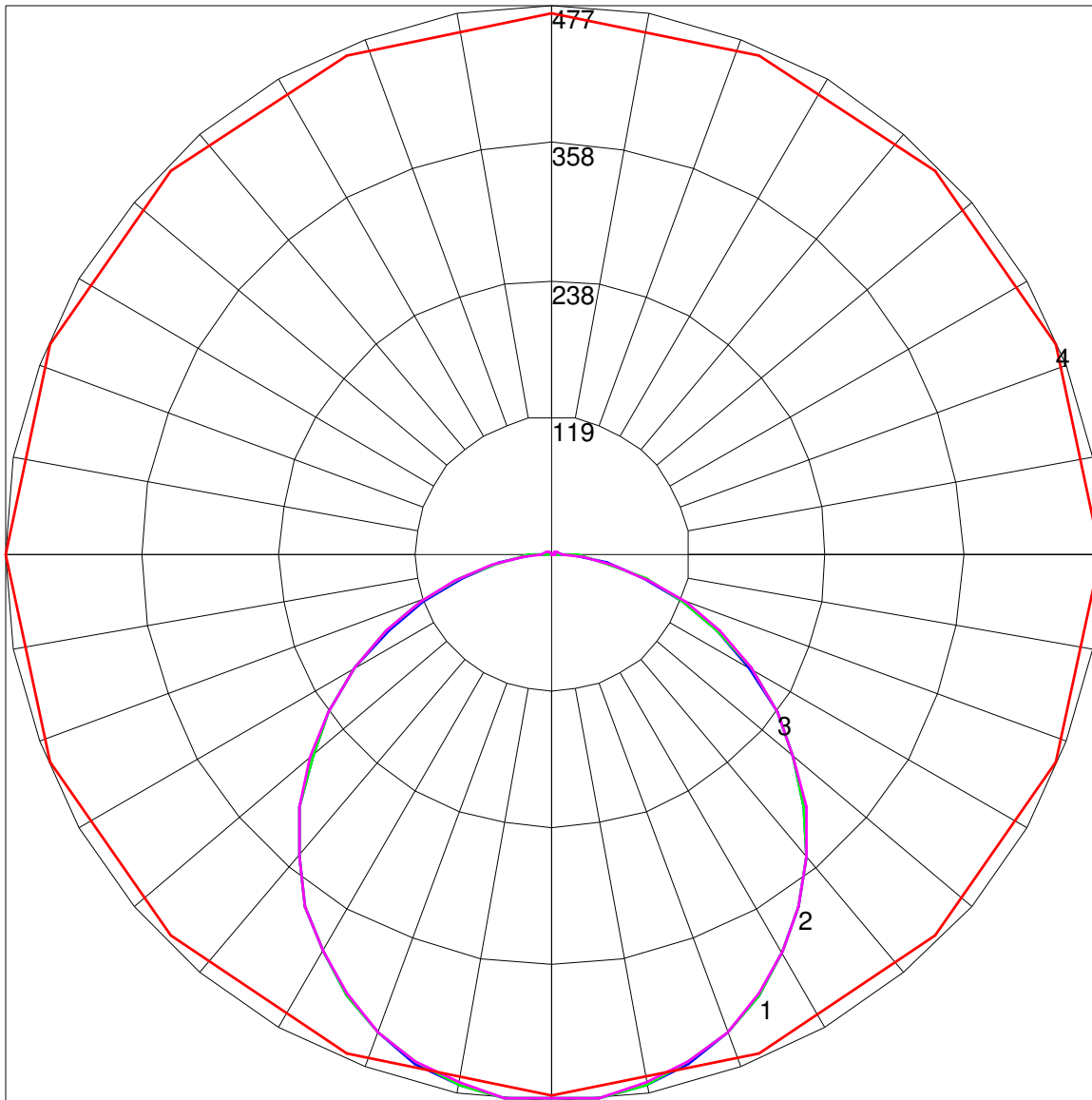
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	16.1	17.7	16.5	18.1	18.5	17.8	19.4	18.2	19.8	20.2
	3H	17.6	19.0	18.0	19.4	19.9	20.1	21.6	20.5	22.0	22.4
	4H	18.0	19.4	18.5	19.8	20.3	21.2	22.6	21.7	23.0	23.5
	6H	18.3	19.6	18.8	20.0	20.5	22.4	23.7	22.9	24.1	24.6
	8H	18.4	19.6	18.9	20.1	20.6	23.0	24.2	23.5	24.7	25.2
	12H	18.4	19.6	18.9	20.0	20.6	23.7	24.8	24.1	25.3	25.8
4H	2H	16.9	18.2	17.3	18.7	19.1	18.2	19.6	18.7	20.0	20.5
	3H	18.6	19.7	19.0	20.2	20.7	20.7	21.9	21.2	22.4	22.9
	4H	19.1	20.2	19.6	20.7	21.2	22.0	23.1	22.5	23.6	24.1
	6H	19.5	20.5	20.1	21.0	21.5	23.4	24.3	23.9	24.8	25.4
	8H	19.6	20.5	20.2	21.0	21.6	24.1	24.9	24.6	25.5	26.0
	12H	19.7	20.5	20.2	21.0	21.6	24.8	25.6	25.4	26.2	26.7
8H	4H	19.7	20.6	20.2	21.1	21.6	22.2	23.1	22.7	23.6	24.2
	6H	20.2	21.0	20.8	21.5	22.1	23.7	24.4	24.2	25.0	25.6
	8H	20.4	21.1	20.9	21.6	22.2	24.5	25.2	25.1	25.8	26.3
	12H	20.5	21.1	21.1	21.6	22.3	25.5	26.1	26.0	26.6	27.3
12H	4H	19.8	20.6	20.4	21.2	21.7	22.2	23.0	22.8	23.6	24.1
	6H	20.4	21.1	21.0	21.7	22.3	23.7	24.4	24.3	24.9	25.6
	8H	20.7	21.3	21.3	21.8	22.5	24.6	25.2	25.2	25.8	26.4

Maximum UGR = 27.3

POLAR GRAPH



Maximum Candela = 476.763 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.)