



IES INDOOR REPORT
PHOTOMETRIC FILENAME : SL-6-L3-840-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-L3-840-RD-DIM-UNV
[LAMPCAT] 22 INCH LED ARRAY

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1896
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	116
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	7843	6310	5989
55	7415	5650	5402
65	6617	4861	4808
75	5574	4006	4279
85	3098	3330	3853

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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	596.907	596.907	596.907	596.907	596.907
5	598.861	595.930	592.022	591.045	592.022
10	590.069	587.138	583.230	583.230	585.184
15	577.368	574.438	570.530	571.507	571.507
20	557.830	554.899	550.014	553.922	554.899
25	533.406	530.475	529.499	532.429	534.383
30	503.121	503.121	503.121	507.029	506.052
35	470.882	470.882	470.882	474.790	477.721
40	431.805	432.782	433.759	440.598	444.505
45	389.797	392.728	395.659	403.474	406.405
50	343.881	346.812	353.650	365.374	371.235
55	299.919	300.896	313.596	323.365	332.158
60	249.118	254.003	271.588	290.150	296.011
65	198.318	206.133	226.649	247.164	255.957
70	151.425	159.240	184.641	210.041	217.856
75	103.555	117.232	145.563	173.894	185.618
80	60.570	75.224	113.324	141.656	154.356
85	20.516	47.870	83.039	111.371	124.071
90	0.000	26.377	61.547	86.947	96.717
95	0.000	13.677	42.008	67.408	76.201
100	0.000	6.839	29.308	49.824	58.616
105	0.000	3.908	20.516	36.147	43.962
110	0.000	2.931	13.677	26.377	31.262
115	0.000	1.954	8.792	18.562	23.446
120	0.000	0.000	4.885	11.723	14.654
125	0.000	0.000	3.908	7.815	9.769
130	0.000	0.000	0.000	4.885	5.862
135	0.000	0.000	0.000	0.000	3.908
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	217.94	N.A.	11.50
0-30	462.89	N.A.	24.40
0-40	758.45	N.A.	40.00
0-60	1345.94	N.A.	71.00
0-80	1725.79	N.A.	91.00
0-90	1813.71	N.A.	95.70
10-90	1757.3	N.A.	92.70
20-40	540.51	N.A.	28.50
20-50	847.12	N.A.	44.70
40-70	812.93	N.A.	42.90
60-80	379.85	N.A.	20.00
70-80	154.41	N.A.	8.10
80-90	87.91	N.A.	4.60
90-110	67.55	N.A.	3.60
90-120	77.81	N.A.	4.10
90-130	81.48	N.A.	4.30
90-150	82.06	N.A.	4.30
90-180	82.06	N.A.	4.30
110-180	14.51	N.A.	0.80
0-180	1895.77	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	56.41
10-20	161.54
20-30	244.95
30-40	295.56
40-50	306.61
50-60	280.88
60-70	225.44
70-80	154.41
80-90	87.91
90-100	45.10
100-110	22.46
110-120	10.26
120-130	3.67
130-140	0.58
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

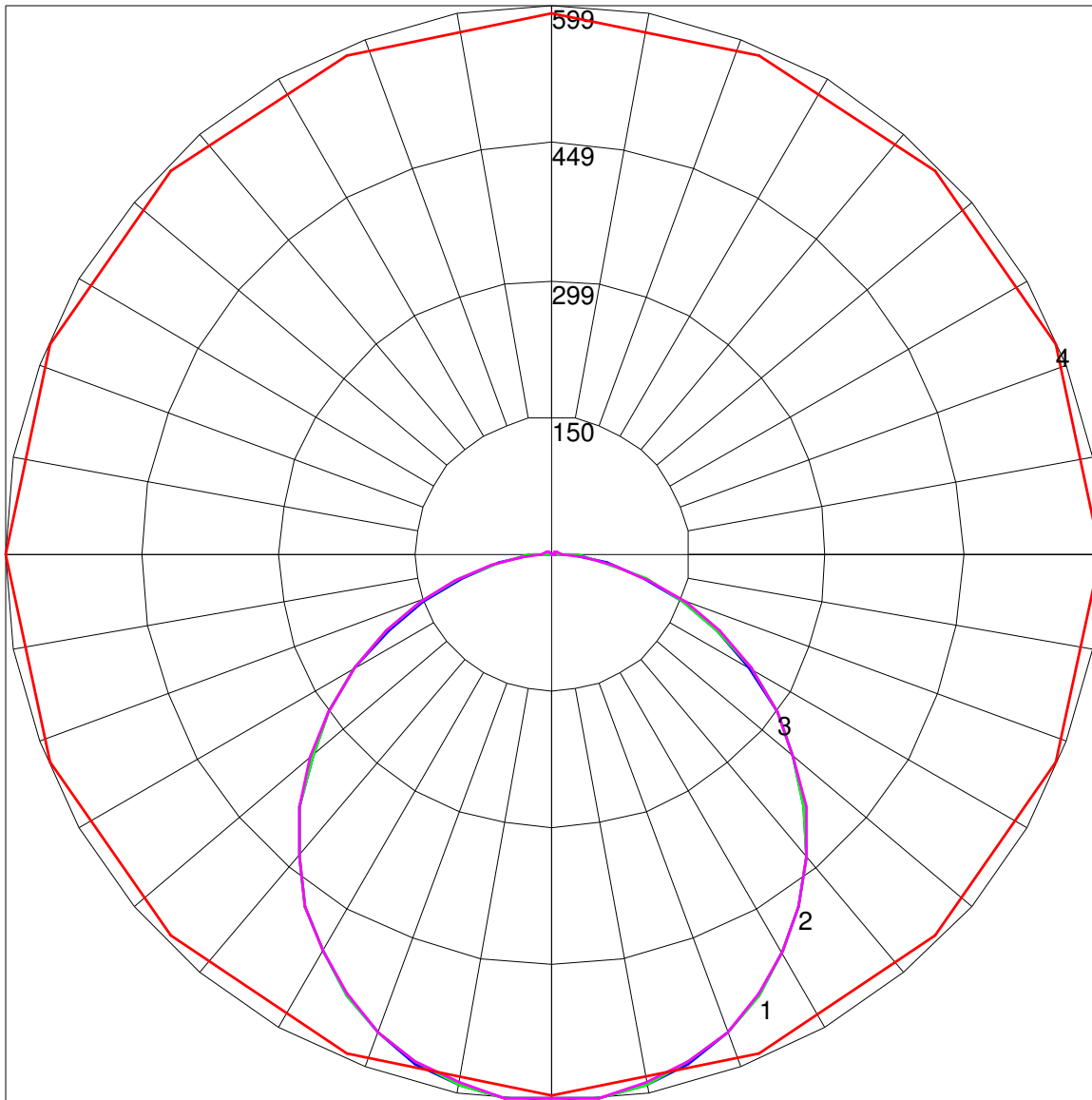
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	16.9	18.5	17.3	18.9	19.3	18.6	20.2	19.0	20.6	21.0
	3H	18.4	19.8	18.8	20.2	20.7	20.9	22.4	21.3	22.8	23.2
	4H	18.8	20.2	19.3	20.6	21.1	22.0	23.4	22.5	23.8	24.3
	6H	19.1	20.4	19.6	20.8	21.3	23.2	24.5	23.7	24.9	25.4
	8H	19.2	20.4	19.7	20.9	21.4	23.8	25.0	24.3	25.5	26.0
	12H	19.2	20.4	19.7	20.8	21.4	24.5	25.6	24.9	26.1	26.6
4H	2H	17.7	19.0	18.1	19.5	19.9	19.0	20.4	19.5	20.8	21.3
	3H	19.4	20.5	19.8	21.0	21.5	21.5	22.7	22.0	23.2	23.7
	4H	19.9	21.0	20.4	21.5	22.0	22.8	23.9	23.3	24.4	24.9
	6H	20.3	21.3	20.8	21.8	22.3	24.2	25.1	24.7	25.6	26.2
	8H	20.4	21.3	20.9	21.8	22.4	24.9	25.7	25.4	26.2	26.8
	12H	20.5	21.3	21.0	21.8	22.4	25.6	26.4	26.2	27.0	27.5
8H	4H	20.5	21.4	21.0	21.9	22.4	23.0	23.9	23.5	24.4	25.0
	6H	21.0	21.8	21.6	22.3	22.9	24.5	25.2	25.0	25.8	26.4
	8H	21.2	21.9	21.7	22.4	23.0	25.3	26.0	25.9	26.6	27.1
	12H	21.3	21.9	21.9	22.4	23.1	26.3	26.9	26.8	27.4	28.1
12H	4H	20.6	21.4	21.2	22.0	22.5	23.0	23.8	23.6	24.4	24.9
	6H	21.2	21.9	21.8	22.5	23.1	24.5	25.2	25.1	25.7	26.4
	8H	21.5	22.1	22.1	22.6	23.3	25.4	26.0	26.0	26.6	27.2

Maximum UGR = 28.1

POLAR GRAPH



Maximum Candela = 598.861 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.)