



IES INDOOR REPORT

PHOTOMETRIC FILENAME : SL-6-L10-840-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-L10-840-RD-DIM-UNV

[LAMPCAT] 22 INCH LED ARRAY

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6236
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	114
Total Luminaire Watts	54.6
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	25799	20758	19701
55	24390	18584	17771
65	21768	15989	15814
75	18336	13178	14075
85	10190	10955	12674

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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	1963.535	1963.535	1963.535	1963.535	1963.535
5	1969.962	1960.322	1947.467	1944.253	1947.467
10	1941.040	1931.399	1918.544	1918.544	1924.971
15	1899.262	1889.621	1876.767	1879.981	1879.981
20	1834.990	1825.349	1809.280	1822.135	1825.349
25	1754.648	1745.008	1741.794	1751.435	1757.862
30	1655.026	1655.026	1655.026	1667.880	1664.666
35	1548.975	1548.975	1548.975	1561.830	1571.471
40	1420.430	1423.643	1426.857	1449.352	1462.207
45	1282.243	1291.884	1301.525	1327.234	1336.875
50	1131.202	1140.843	1163.338	1201.902	1221.184
55	986.588	989.802	1031.579	1063.715	1092.638
60	819.479	835.547	893.392	954.452	973.733
65	652.369	678.078	745.565	813.051	841.974
70	498.114	523.824	607.378	690.933	716.642
75	340.646	385.637	478.833	572.028	610.592
80	199.246	247.450	372.782	465.978	507.755
85	67.486	157.468	273.160	366.355	408.133
90	0.000	86.768	202.459	286.014	318.151
95	0.000	44.991	138.187	221.741	250.664
100	0.000	22.495	96.409	163.896	192.819
105	0.000	12.855	67.486	118.905	144.614
110	0.000	9.641	44.991	86.768	102.837
115	0.000	6.427	28.923	61.059	77.127
120	0.000	0.000	16.068	38.564	48.205
125	0.000	0.000	12.855	25.709	32.136
130	0.000	0.000	0.000	16.068	19.282
135	0.000	0.000	0.000	0.000	12.855
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	716.92	N.A.	11.50
0-30	1522.68	N.A.	24.40
0-40	2494.94	N.A.	40.00
0-60	4427.5	N.A.	71.00
0-80	5677.02	N.A.	91.00
0-90	5966.21	N.A.	95.70
10-90	5780.67	N.A.	92.70
20-40	1778.02	N.A.	28.50
20-50	2786.62	N.A.	44.70
40-70	2674.16	N.A.	42.90
60-80	1249.52	N.A.	20.00
70-80	507.92	N.A.	8.10
80-90	289.19	N.A.	4.60
90-110	222.22	N.A.	3.60
90-120	255.96	N.A.	4.10
90-130	268.03	N.A.	4.30
90-150	269.95	N.A.	4.30
90-180	269.95	N.A.	4.30
110-180	47.73	N.A.	0.80
0-180	6236.17	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	185.55
10-20	531.37
20-30	805.76
30-40	972.26
40-50	1008.6
50-60	923.96
60-70	741.60
70-80	507.92
80-90	289.19
90-100	148.34
100-110	73.88
110-120	33.74
120-130	12.07
130-140	1.92
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

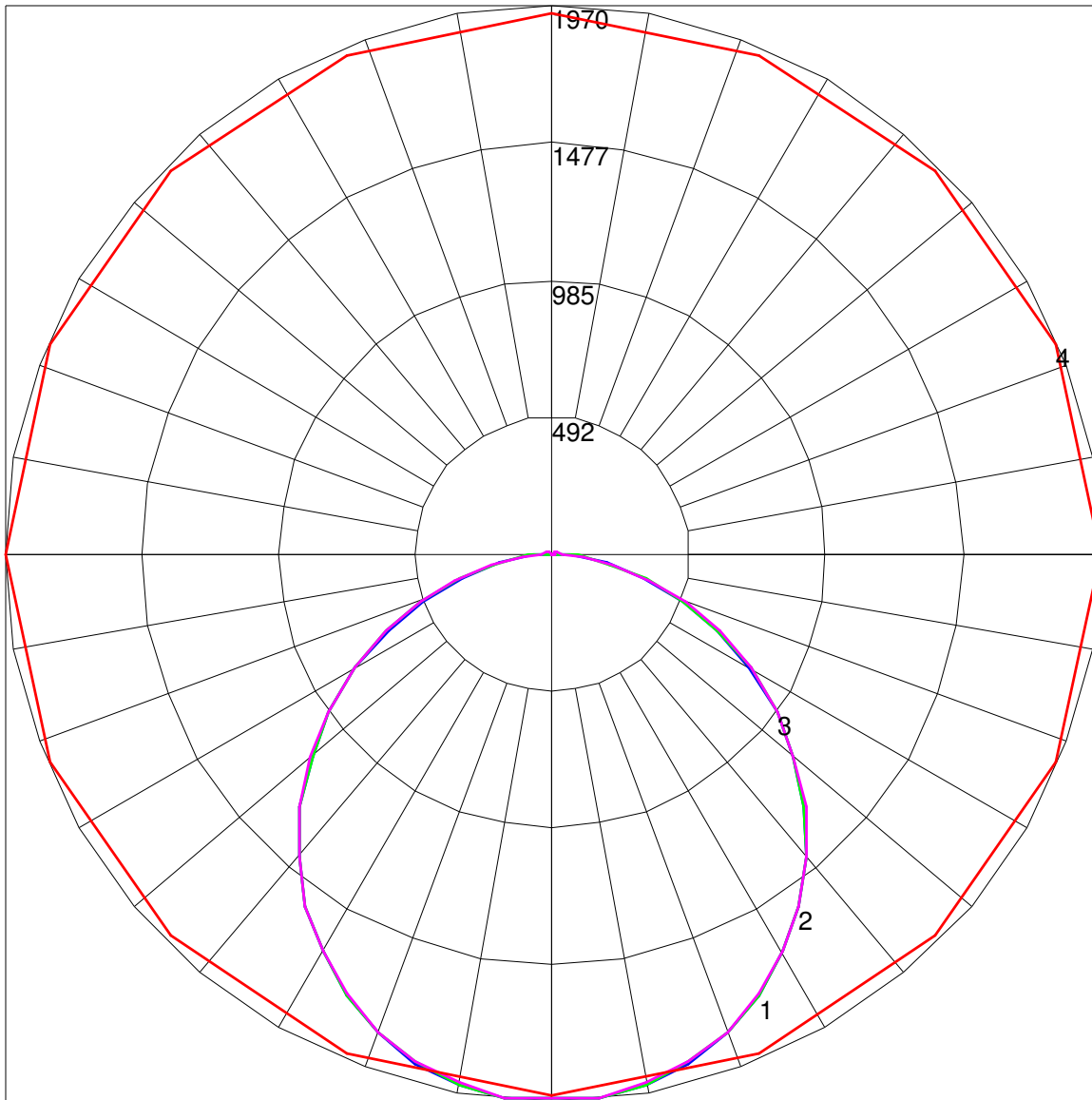
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	21.1	22.7	21.5	23.1	23.5	22.8	24.4	23.2	24.8	25.2
	3H	22.6	24.0	23.0	24.4	24.9	25.1	26.6	25.5	27.0	27.4
	4H	23.0	24.4	23.5	24.8	25.3	26.2	27.6	26.7	28.0	28.5
	6H	23.3	24.6	23.8	25.0	25.5	27.4	28.7	27.9	29.1	29.6
	8H	23.4	24.6	23.9	25.1	25.6	28.0	29.2	28.5	29.7	30.2
	12H	23.4	24.6	23.9	25.0	25.6	28.7	29.8	29.1	30.3	30.8
4H	2H	21.9	23.2	22.3	23.7	24.1	23.2	24.6	23.7	25.0	25.5
	3H	23.6	24.7	24.0	25.2	25.7	25.7	26.9	26.2	27.4	27.9
	4H	24.1	25.2	24.6	25.7	26.2	27.0	28.1	27.5	28.6	29.1
	6H	24.5	25.5	25.1	26.0	26.5	28.4	29.3	28.9	29.8	30.4
	8H	24.6	25.5	25.1	26.0	26.6	29.1	29.9	29.6	30.5	31.0
	12H	24.7	25.5	25.2	26.0	26.6	29.8	30.6	30.4	31.2	31.7
8H	4H	24.7	25.6	25.2	26.1	26.6	27.2	28.1	27.7	28.6	29.2
	6H	25.2	26.0	25.8	26.5	27.1	28.7	29.4	29.2	30.0	30.6
	8H	25.4	26.1	25.9	26.6	27.2	29.5	30.2	30.1	30.8	31.3
	12H	25.5	26.1	26.1	26.6	27.3	30.5	31.1	31.0	31.6	32.3
12H	4H	24.8	25.6	25.4	26.2	26.7	27.2	28.0	27.8	28.6	29.1
	6H	25.4	26.1	26.0	26.7	27.3	28.7	29.4	29.3	29.9	30.6
	8H	25.7	26.3	26.3	26.8	27.5	29.6	30.2	30.2	30.8	31.4

Maximum UGR = 32.3

POLAR GRAPH



Maximum Candela = 1969.962 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.)