



IES INDOOR REPORT
PHOTOMETRIC FILENAME : SL-6-L10-830-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-L10-830-RD-DIM-UNV
[LAMPCAT] 22 INCH LED ARRAY

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5994
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	110
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	24797	19952	18936
55	23443	17863	17081
65	20922	15368	15200
75	17624	12667	13529
85	9794	10529	12182

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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	1887.282	1887.282	1887.282	1887.282	1887.282
5	1893.460	1884.193	1871.838	1868.749	1871.838
10	1865.660	1856.393	1844.038	1844.038	1850.216
15	1825.505	1816.238	1803.883	1806.972	1806.972
20	1763.728	1754.462	1739.017	1751.373	1754.462
25	1686.507	1677.241	1674.152	1683.418	1689.596
30	1590.753	1590.753	1590.753	1603.108	1600.020
35	1488.821	1488.821	1488.821	1501.177	1510.443
40	1365.268	1368.357	1371.445	1393.067	1405.423
45	1232.448	1241.714	1250.981	1275.691	1284.958
50	1087.272	1096.539	1118.160	1155.227	1173.760
55	948.274	951.363	991.518	1022.406	1050.206
60	787.654	803.099	858.698	917.386	935.919
65	627.035	651.745	716.611	781.477	809.276
70	478.770	503.481	583.791	664.101	688.812
75	327.417	370.661	460.237	549.814	586.880
80	191.508	237.841	358.306	447.882	488.037
85	64.866	151.353	262.551	352.128	392.283
90	0.000	83.399	194.597	274.907	305.795
95	0.000	43.244	132.820	213.130	240.930
100	0.000	21.622	92.665	157.531	185.330
105	0.000	12.355	64.866	114.287	138.998
110	0.000	9.267	43.244	83.399	98.843
115	0.000	6.178	27.800	58.688	74.132
120	0.000	0.000	15.444	37.066	46.333
125	0.000	0.000	12.355	24.711	30.888
130	0.000	0.000	0.000	15.444	18.533
135	0.000	0.000	0.000	0.000	12.355
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	689.08	N.A.	11.50
0-30	1463.55	N.A.	24.40
0-40	2398.05	N.A.	40.00
0-60	4255.56	N.A.	71.00
0-80	5456.55	N.A.	91.00
0-90	5734.52	N.A.	95.70
10-90	5556.18	N.A.	92.70
20-40	1708.97	N.A.	28.50
20-50	2678.4	N.A.	44.70
40-70	2570.31	N.A.	42.90
60-80	1201.00	N.A.	20.00
70-80	488.20	N.A.	8.10
80-90	277.96	N.A.	4.60
90-110	213.59	N.A.	3.60
90-120	246.02	N.A.	4.10
90-130	257.62	N.A.	4.30
90-150	259.47	N.A.	4.30
90-180	259.47	N.A.	4.30
110-180	45.88	N.A.	0.80
0-180	5993.99	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	178.34
10-20	510.74
20-30	774.47
30-40	934.50
40-50	969.43
50-60	888.08
60-70	712.80
70-80	488.20
80-90	277.96
90-100	142.58
100-110	71.01
110-120	32.43
120-130	11.61
130-140	1.85
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

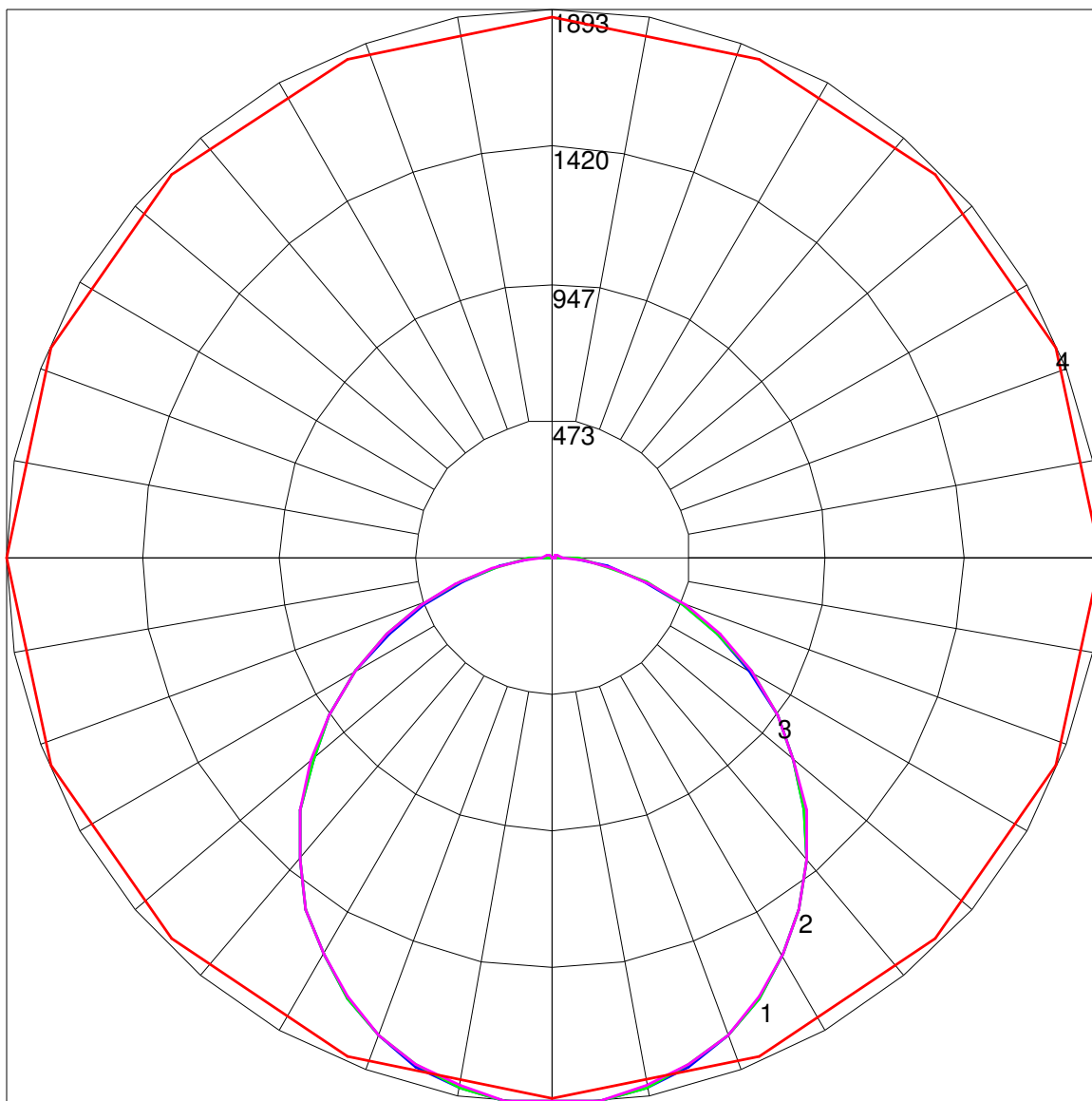
Reflectances

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	20.9	22.5	21.3	22.9	23.3	22.6	24.2	23.0	24.6	25.0
	3H	22.4	23.8	22.8	24.2	24.7	24.9	26.4	25.3	26.8	27.2
	4H	22.8	24.2	23.3	24.6	25.1	26.0	27.4	26.5	27.8	28.3
	6H	23.1	24.4	23.6	24.8	25.3	27.2	28.5	27.7	28.9	29.4
	8H	23.2	24.4	23.7	24.9	25.4	27.8	29.0	28.3	29.5	30.0
	12H	23.2	24.4	23.7	24.8	25.4	28.5	29.6	28.9	30.1	30.6
4H	2H	21.7	23.0	22.1	23.5	23.9	23.0	24.4	23.5	24.8	25.3
	3H	23.4	24.5	23.8	25.0	25.5	25.5	26.7	26.0	27.2	27.7
	4H	23.9	25.0	24.4	25.5	26.0	26.8	27.9	27.3	28.4	28.9
	6H	24.3	25.3	24.9	25.8	26.3	28.2	29.1	28.7	29.6	30.2
	8H	24.4	25.3	24.9	25.8	26.4	28.9	29.7	29.4	30.2	30.8
	12H	24.5	25.3	25.0	25.8	26.4	29.6	30.4	30.2	31.0	31.5
8H	4H	24.5	25.4	25.0	25.9	26.4	27.0	27.9	27.5	28.4	29.0
	6H	25.0	25.8	25.6	26.3	26.9	28.5	29.2	29.0	29.8	30.4
	8H	25.2	25.9	25.7	26.4	27.0	29.3	30.0	29.9	30.6	31.1
	12H	25.3	25.9	25.9	26.4	27.1	30.3	30.9	30.8	31.4	32.1
12H	4H	24.6	25.4	25.2	26.0	26.5	27.0	27.8	27.6	28.4	28.9
	6H	25.2	25.9	25.8	26.5	27.1	28.5	29.2	29.1	29.7	30.4
	8H	25.5	26.1	26.1	26.6	27.3	29.4	30.0	30.0	30.6	31.2

Maximum UGR = 32.1

POLAR GRAPH



Maximum Candela = 1893.46 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.)