



IES INDOOR REPORT
PHOTOMETRIC FILENAME : SL-4-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] 48 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-4-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	4035
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	107
Total Luminaire Watts	37.7
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)	4.00 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	24944	20104	19122
55	23543	17987	17249
65	20955	15461	15350
75	17547	12726	13662
85	9500	10551	12302

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SL-4-L10-830-RD-DIM-UNV_.IES

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	1270.549	1270.549	1270.549	1270.549	1270.549
5	1274.708	1268.470	1260.152	1258.073	1260.152
10	1255.993	1249.755	1241.437	1241.437	1245.596
15	1228.960	1222.722	1214.404	1216.483	1216.483
20	1187.371	1181.133	1170.735	1179.053	1181.133
25	1135.385	1129.146	1127.067	1133.305	1137.464
30	1070.921	1070.921	1070.921	1079.239	1077.160
35	1002.299	1002.299	1002.299	1010.617	1016.855
40	919.121	921.200	923.280	937.836	946.154
45	829.704	835.942	842.181	858.817	865.055
50	731.970	738.208	752.764	777.718	790.194
55	638.394	640.473	667.506	688.301	707.016
60	530.262	540.659	578.090	617.599	630.076
65	422.130	438.766	482.434	526.103	544.818
70	322.316	338.952	393.018	447.084	463.719
75	220.423	249.535	309.839	370.144	395.097
80	128.926	160.118	241.217	301.522	328.555
85	43.669	101.893	176.754	237.058	264.091
90	0.000	56.145	131.006	185.072	205.866
95	0.000	29.112	89.417	143.483	162.198
100	0.000	14.556	62.384	106.052	124.768
105	0.000	8.318	43.669	76.940	93.576
110	0.000	6.238	29.112	56.145	66.543
115	0.000	4.159	18.715	39.510	49.907
120	0.000	0.000	10.397	24.954	31.192
125	0.000	0.000	8.318	16.636	20.795
130	0.000	0.000	0.000	10.397	12.477
135	0.000	0.000	0.000	0.000	8.318
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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SL-4-L10-830-RD-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	463.90	N.A.	11.50
0-30	985.28	N.A.	24.40
0-40	1614.4	N.A.	40.00
0-60	2864.91	N.A.	71.00
0-80	3673.44	N.A.	91.00
0-90	3860.57	N.A.	95.70
10-90	3740.51	N.A.	92.70
20-40	1150.5	N.A.	28.50
20-50	1803.14	N.A.	44.70
40-70	1730.38	N.A.	42.90
60-80	808.53	N.A.	20.00
70-80	328.66	N.A.	8.10
80-90	187.13	N.A.	4.60
90-110	143.79	N.A.	3.60
90-120	165.62	N.A.	4.10
90-130	173.44	N.A.	4.30
90-150	174.68	N.A.	4.30
90-180	174.68	N.A.	4.30
110-180	30.89	N.A.	0.80
0-180	4035.25	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	120.06
10-20	343.84
20-30	521.38
30-40	629.12
40-50	652.64
50-60	597.87
60-70	479.87
70-80	328.66
80-90	187.13
90-100	95.99
100-110	47.80
110-120	21.83
120-130	7.81
130-140	1.24
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SL-4-L10-830-RD-DIM-UNV_.IES

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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SL-4-L10-830-RD-DIM-UNV_.IES

UGR TABLE - CORRECTED

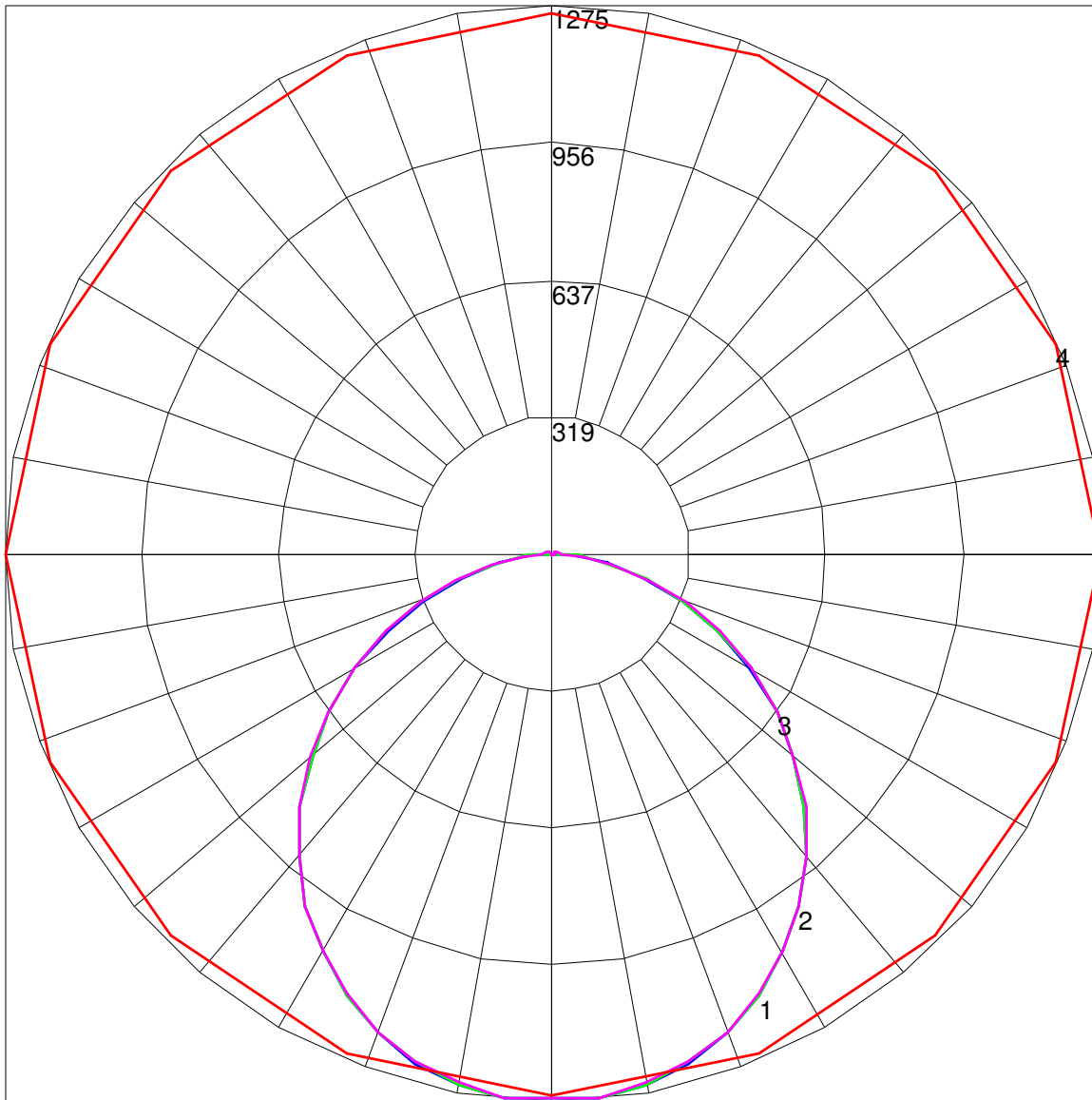
Reflectances

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	26.3	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	24.9	25.3	27.2	28.4	27.6	28.9	29.4
	8H	23.2	24.4	23.7	24.9	25.4	27.7	29.0	28.2	29.4	29.9
	12H	23.2	24.4	23.7	24.8	25.4	28.4	29.6	28.9	30.0	30.6
4H	2H	21.7	23.1	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	28.3	28.9
	6H	24.3	25.3	24.9	25.8	26.3	28.1	29.1	28.7	29.6	30.1
	8H	24.4	25.3	25.0	25.8	26.4	28.8	29.7	29.3	30.2	30.8
	12H	24.5	25.3	25.0	25.8	26.4	29.6	30.4	30.1	30.9	31.5
8H	4H	24.5	25.4	25.0	25.9	26.4	27.0	27.9	27.5	28.4	28.9
	6H	25.0	25.8	25.6	26.3	26.9	28.5	29.2	29.0	29.8	30.3
	8H	25.2	25.9	25.7	26.4	27.0	29.3	30.0	29.8	30.5	31.1
	12H	25.3	25.9	25.9	26.4	27.1	30.2	30.8	30.8	31.4	32.0
12H	4H	24.6	25.4	25.2	26.0	26.5	27.0	27.8	27.5	28.3	28.9
	6H	25.2	25.9	25.8	26.5	27.1	28.5	29.2	29.1	29.7	30.3
	8H	25.5	26.1	26.1	26.6	27.3	29.4	30.0	29.9	30.5	31.2

Maximum UGR = 32.0

POLAR GRAPH



Maximum Candela = 1274.708 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.)