



IES INDOOR REPORT

PHOTOMETRIC FILENAME : SL-4-L10-950-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-L10-950-RD-DIM-UNV

[LAMPCAT] 22 INCH LED ARRAY

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3628
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	96
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	22424	18073	17191
55	21165	16170	15507
65	18838	13899	13799
75	15775	11440	12282
85	8541	9486	11059

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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	1142.211	1142.211	1142.211	1142.211	1142.211
5	1145.950	1140.342	1132.864	1130.995	1132.864
10	1129.125	1123.517	1116.040	1116.040	1119.778
15	1104.823	1099.215	1091.737	1093.607	1093.607
20	1067.435	1061.827	1052.480	1059.957	1061.827
25	1020.700	1015.091	1013.222	1018.830	1022.569
30	962.748	962.748	962.748	970.225	968.356
35	901.057	901.057	901.057	908.535	914.143
40	826.281	828.150	830.019	843.105	850.583
45	745.896	751.504	757.112	772.068	777.676
50	658.033	663.642	676.728	699.160	710.377
55	573.910	575.779	600.082	618.776	635.600
60	476.700	486.047	519.697	555.216	566.432
65	379.491	394.446	433.704	472.961	489.786
70	289.759	304.714	353.319	401.924	416.879
75	198.158	224.330	278.543	332.756	355.188
80	115.904	143.945	216.852	271.065	295.367
85	39.258	91.601	158.900	213.113	237.415
90	0.000	50.474	117.773	166.378	185.072
95	0.000	26.172	80.385	128.989	145.814
100	0.000	13.086	56.082	95.340	112.165
105	0.000	7.478	39.258	69.168	84.124
110	0.000	5.608	26.172	50.474	59.821
115	0.000	3.739	16.825	35.519	44.866
120	0.000	0.000	9.347	22.433	28.041
125	0.000	0.000	7.478	14.955	18.694
130	0.000	0.000	0.000	9.347	11.216
135	0.000	0.000	0.000	0.000	7.478
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	417.04	N.A.	11.50
0-30	885.76	N.A.	24.40
0-40	1451.33	N.A.	40.00
0-60	2575.53	N.A.	71.00
0-80	3302.39	N.A.	91.00
0-90	3470.62	N.A.	95.70
10-90	3362.68	N.A.	92.70
20-40	1034.29	N.A.	28.50
20-50	1621.01	N.A.	44.70
40-70	1555.59	N.A.	42.90
60-80	726.86	N.A.	20.00
70-80	295.46	N.A.	8.10
80-90	168.23	N.A.	4.60
90-110	129.27	N.A.	3.60
90-120	148.89	N.A.	4.10
90-130	155.92	N.A.	4.30
90-150	157.03	N.A.	4.30
90-180	157.03	N.A.	4.30
110-180	27.77	N.A.	0.80
0-180	3627.65	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	107.94
10-20	309.11
20-30	468.72
30-40	565.57
40-50	586.71
50-60	537.48
60-70	431.40
70-80	295.46
80-90	168.23
90-100	86.29
100-110	42.97
110-120	19.63
120-130	7.02
130-140	1.12
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

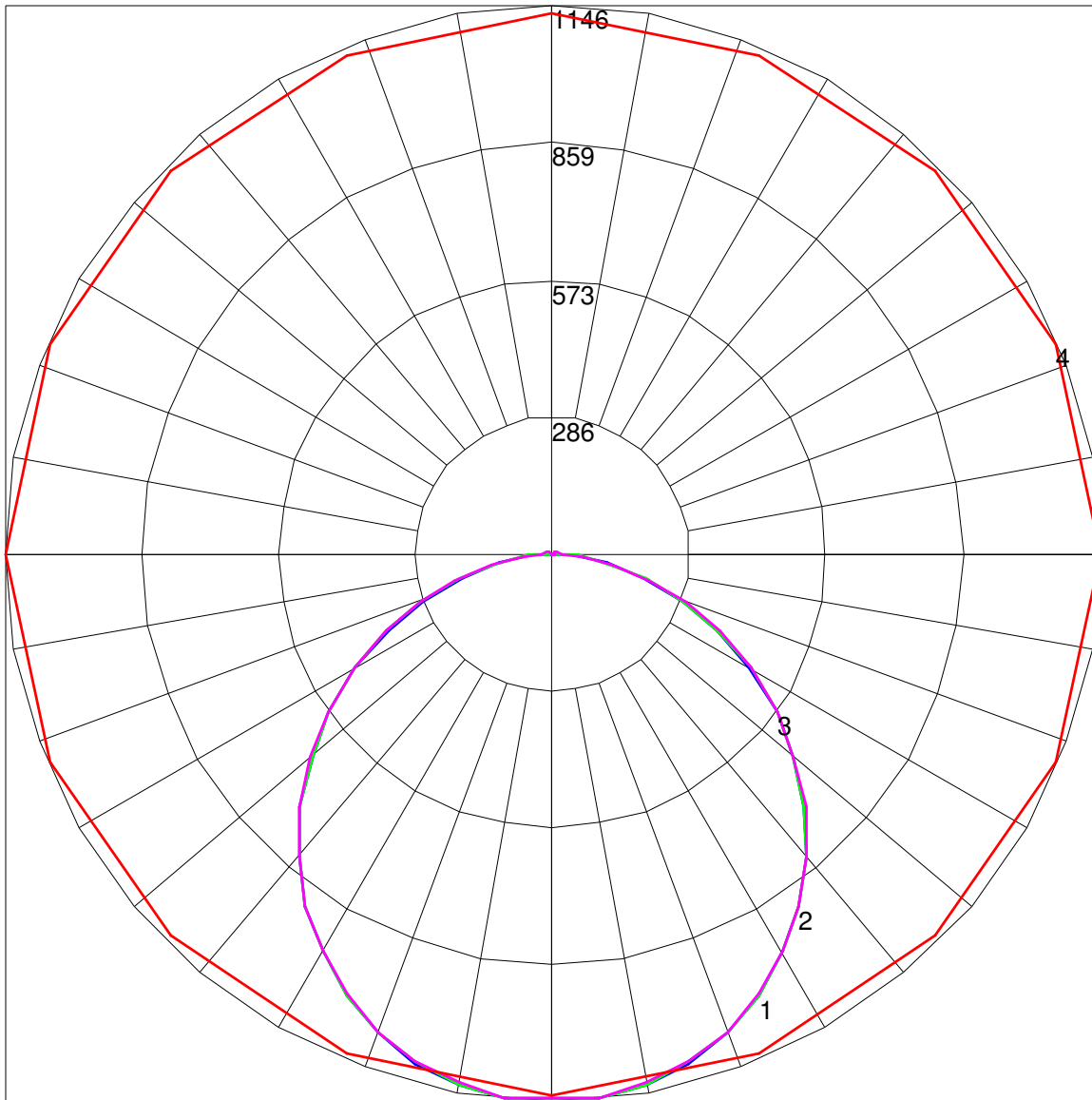
Reflectances

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	20.6	22.2	21.0	22.6	23.0	22.3	23.9	22.7	24.3	24.7
	3H	22.1	23.5	22.5	23.9	24.4	24.6	26.0	25.0	26.5	26.9
	4H	22.5	23.9	23.0	24.3	24.8	25.7	27.1	26.2	27.5	28.0
	6H	22.8	24.1	23.3	24.6	25.0	26.9	28.1	27.3	28.6	29.1
	8H	22.9	24.1	23.4	24.6	25.1	27.4	28.7	27.9	29.1	29.6
	12H	22.9	24.1	23.4	24.5	25.1	28.1	29.3	28.6	29.7	30.3
4H	2H	21.4	22.7	21.8	23.2	23.6	22.7	24.1	23.2	24.5	25.0
	3H	23.1	24.2	23.5	24.7	25.2	25.2	26.4	25.7	26.9	27.4
	4H	23.6	24.7	24.1	25.2	25.7	26.5	27.6	27.0	28.0	28.6
	6H	24.0	25.0	24.6	25.5	26.0	27.8	28.8	28.4	29.3	29.8
	8H	24.1	25.0	24.7	25.5	26.1	28.5	29.4	29.0	29.9	30.5
	12H	24.2	25.0	24.7	25.5	26.1	29.3	30.1	29.8	30.6	31.2
8H	4H	24.2	25.1	24.7	25.6	26.1	26.7	27.6	27.2	28.1	28.6
	6H	24.7	25.5	25.3	26.0	26.6	28.2	28.9	28.7	29.5	30.0
	8H	24.9	25.6	25.4	26.1	26.7	29.0	29.7	29.5	30.2	30.8
	12H	25.0	25.6	25.6	26.1	26.8	29.9	30.5	30.5	31.1	31.7
12H	4H	24.3	25.1	24.9	25.7	26.2	26.7	27.5	27.2	28.0	28.6
	6H	24.9	25.6	25.5	26.2	26.8	28.2	28.9	28.8	29.4	30.0
	8H	25.2	25.8	25.7	26.3	27.0	29.1	29.7	29.6	30.2	30.9

Maximum UGR = 31.7

POLAR GRAPH



Maximum Candela = 1145.95 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.)