



IES INDOOR REPORT
PHOTOMETRIC FILENAME : SL-4-L10-850-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-L10-850-RD-DIM-UNV
[LAMPCAT] 22 INCH LED ARRAY

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4321
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	115
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	26707	21526	20474
55	25208	19259	18469
65	22436	16554	16435
75	18788	13626	14628
85	10172	11297	13171

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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	1360.386	1360.386	1360.386	1360.386	1360.386
5	1364.839	1358.159	1349.254	1347.027	1349.254
10	1344.801	1338.121	1329.215	1329.215	1333.668
15	1315.856	1309.177	1300.271	1302.497	1302.497
20	1271.326	1264.647	1253.514	1262.420	1264.647
25	1215.664	1208.985	1206.758	1213.438	1217.891
30	1146.643	1146.643	1146.643	1155.549	1153.322
35	1073.169	1073.169	1073.169	1082.075	1088.754
40	984.109	986.336	988.562	1004.147	1013.053
45	888.370	895.049	901.729	919.541	926.220
50	783.725	790.404	805.990	832.708	846.067
55	683.533	685.759	714.704	736.969	757.007
60	567.755	578.888	618.964	661.268	674.627
65	451.978	469.790	516.546	563.302	583.341
70	345.106	362.918	420.807	478.696	496.507
75	236.008	267.179	331.747	396.315	423.033
80	138.042	171.440	258.273	322.841	351.786
85	46.756	109.098	189.252	253.820	282.764
90	0.000	60.115	140.269	198.158	220.423
95	0.000	31.171	95.739	153.628	173.666
100	0.000	15.585	66.795	113.551	133.589
105	0.000	8.906	46.756	82.380	100.192
110	0.000	6.679	31.171	60.115	71.248
115	0.000	4.453	20.038	42.303	53.436
120	0.000	0.000	11.132	26.718	33.397
125	0.000	0.000	8.906	17.812	22.265
130	0.000	0.000	0.000	11.132	13.359
135	0.000	0.000	0.000	0.000	8.906
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	496.70	N.A.	11.50
0-30	1054.95	N.A.	24.40
0-40	1728.55	N.A.	40.00
0-60	3067.48	N.A.	71.00
0-80	3933.18	N.A.	91.00
0-90	4133.54	N.A.	95.70
10-90	4004.99	N.A.	92.70
20-40	1231.85	N.A.	28.50
20-50	1930.64	N.A.	44.70
40-70	1852.73	N.A.	42.90
60-80	865.70	N.A.	20.00
70-80	351.90	N.A.	8.10
80-90	200.36	N.A.	4.60
90-110	153.96	N.A.	3.60
90-120	177.33	N.A.	4.10
90-130	185.70	N.A.	4.30
90-150	187.03	N.A.	4.30
90-180	187.03	N.A.	4.30
110-180	33.07	N.A.	0.80
0-180	4320.57	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	128.55
10-20	368.15
20-30	558.25
30-40	673.60
40-50	698.78
50-60	640.14
60-70	513.80
70-80	351.90
80-90	200.36
90-100	102.78
100-110	51.18
110-120	23.37
120-130	8.37
130-140	1.33
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

X=2H	Y=2H	21.2	22.8	21.6	23.2	23.6	22.9	24.5	23.3	24.9	25.3
	3H	22.7	24.1	23.1	24.5	25.0	25.2	26.6	25.6	27.1	27.5
	4H	23.1	24.5	23.6	24.9	25.4	26.3	27.7	26.8	28.1	28.6
	6H	23.4	24.7	23.9	25.2	25.6	27.5	28.7	27.9	29.2	29.7
	8H	23.5	24.7	24.0	25.2	25.7	28.0	29.3	28.5	29.7	30.2
	12H	23.5	24.7	24.0	25.1	25.7	28.7	29.9	29.2	30.3	30.9

UGR Viewed Endwise

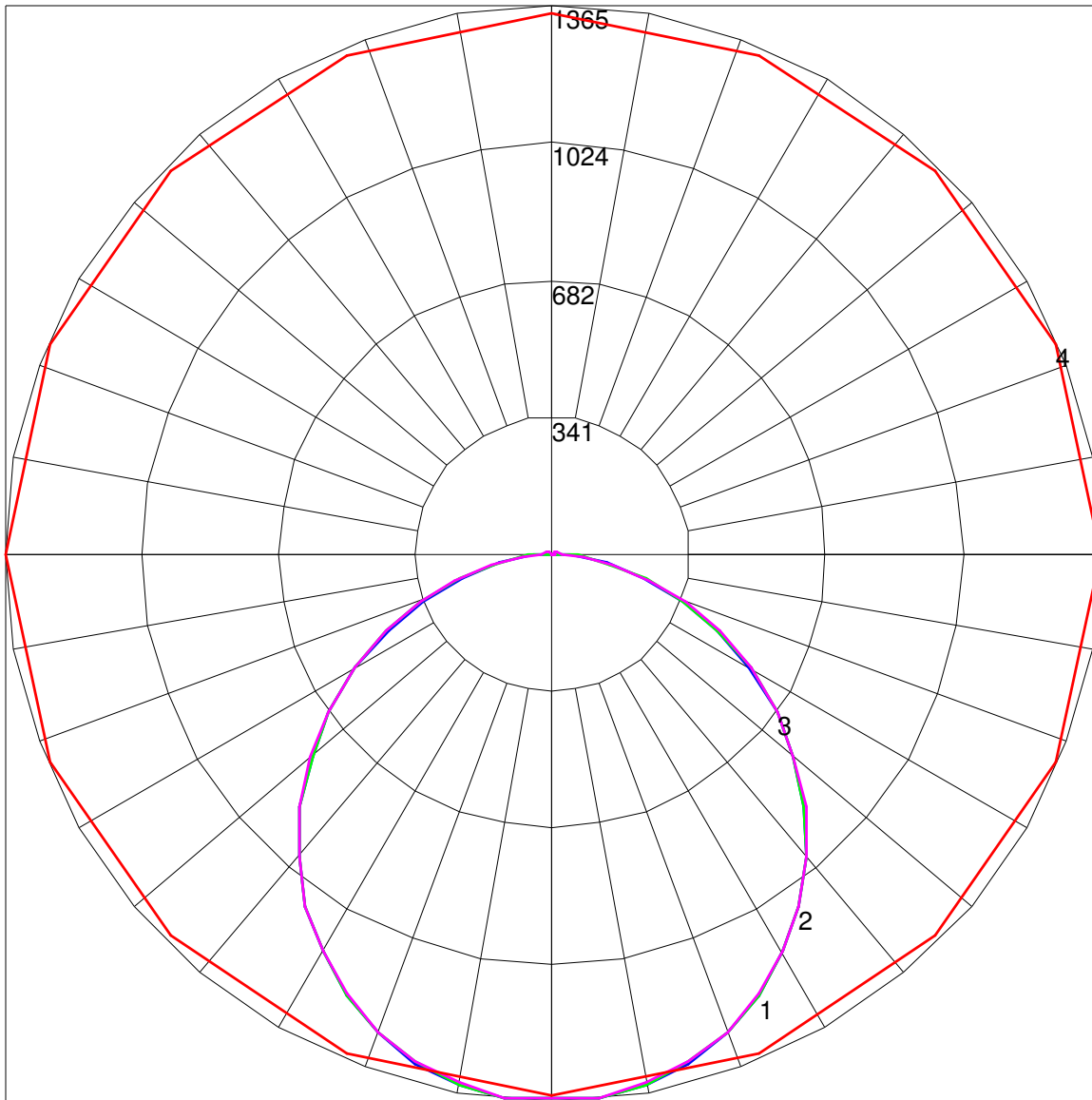
4H	2H	22.0	23.3	22.4	23.8	24.2	23.3	24.7	23.8	25.1	25.6
	3H	23.7	24.8	24.1	25.3	25.8	25.8	27.0	26.3	27.5	28.0
	4H	24.2	25.3	24.7	25.8	26.3	27.1	28.2	27.6	28.6	29.2
	6H	24.6	25.6	25.2	26.1	26.6	28.4	29.4	29.0	29.9	30.4
	8H	24.7	25.6	25.3	26.1	26.7	29.1	30.0	29.6	30.5	31.1
	12H	24.8	25.6	25.3	26.1	26.7	29.9	30.7	30.4	31.2	31.8

8H	4H	24.8	25.7	25.3	26.2	26.7	27.3	28.2	27.8	28.7	29.2
	6H	25.3	26.1	25.9	26.6	27.2	28.8	29.5	29.3	30.1	30.6
	8H	25.5	26.2	26.0	26.7	27.3	29.6	30.3	30.1	30.8	31.4
	12H	25.6	26.2	26.2	26.7	27.4	30.5	31.1	31.1	31.7	32.3

12H	4H	24.9	25.7	25.5	26.3	26.8	27.3	28.1	27.8	28.6	29.2
	6H	25.5	26.2	26.1	26.8	27.4	28.8	29.5	29.4	30.0	30.6
	8H	25.8	26.4	26.3	26.9	27.6	29.7	30.3	30.2	30.8	31.5

Maximum UGR = 32.3

POLAR GRAPH



Maximum Candela = 1364.839 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.)