

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P580179

Luminaire Tested: **HVSL12-4-LD4-1HI-30-UNV-O-EDD-90**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580179
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-135-6)
Test Lab: INNOVATION CENTER
Issue Date: 12/16/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: HVSL12-4-LD4-1HI-30-UNV-O-EDD-90
Description: 4 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 3000K, 90 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

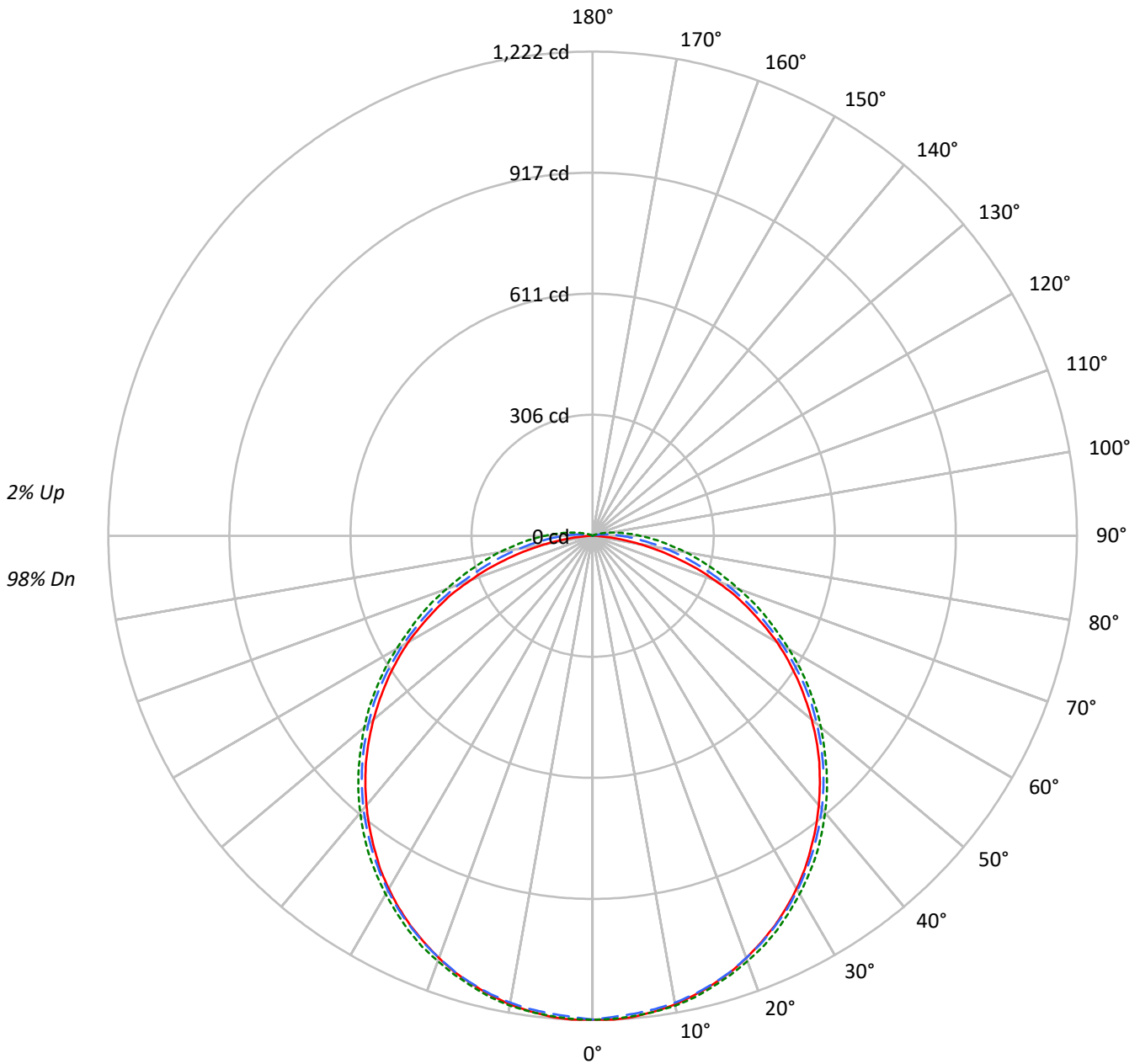
Lumens per Lamp: N/A
Luminaire Lumens: 3692.0 lumens
Efficiency: N/A
Efficacy: 81.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 45.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	110	110	110	105	105	105	101	101	101				98																
1	108	102	98	94	105	100	96	92	95	92	89	91	88	86	87	85	83				81																
2	98	89	82	76	95	87	80	75	83	77	73	79	75	71	76	72	69				67																
3	89	78	69	63	86	76	68	62	73	66	61	70	64	59	67	62	58				56																
4	81	69	60	53	79	67	59	52	65	57	52	62	56	51	60	54	50				47																
5	75	61	52	45	72	60	52	45	58	50	44	56	49	44	54	48	43				41																
6	69	55	46	40	67	54	46	39	52	45	39	50	44	38	49	43	38				36																
7	64	50	41	35	62	49	41	35	47	40	34	46	39	34	44	38	34				32																
8	59	46	37	31	58	45	37	31	43	36	31	42	35	30	41	35	30				28																
9	55	42	34	28	54	41	33	28	40	33	28	39	32	27	38	32	27				25																
10	52	39	31	25	51	38	30	25	37	30	25	36	29	25	35	29	25				23																

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3286	3286	3286
5°	3280	3229	3239
10°	3258	3187	3196
15°	3230	3138	3140
20°	3199	3082	3085
25°	3163	3023	3028
30°	3122	2959	2960
35°	3069	2888	2893
40°	3014	2812	2812
45°	2955	2729	2723
50°	2878	2630	2626
55°	2795	2522	2518
60°	2696	2375	2388
65°	2536	2209	2262
70°	2304	2011	2113
75°	1976	1792	1989
80°	1487	1585	1897
85°	795	1387	1845



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.6	3.1
10°-20°	331.5	9.0
20°-30°	502.9	13.6
30°-40°	608.1	16.5
40°-50°	634.5	17.2
50°-60°	580.2	15.7
60°-70°	452.3	12.2
70°-80°	282.9	7.7
80°-90°	128.5	3.5
90°-100°	43.1	1.2
100°-110°	10.8	0.3
110°-120°	1.7	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	949.9	25.7
0°-40°	1558.1	42.2
0°-60°	2772.8	75.1
0°-90°	3636.4	98.5
90°-120°	55.6	1.5
90°-150°	55.6	1.5
90°-180°	56.0	1.5
0°-180°	3692.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1221	1221	1221	1221	1221	
5°	1218	1216	1211	1216	1216	116
15°	1172	1174	1171	1178	1177	331
25°	1086	1087	1088	1097	1099	500
35°	961	966	970	980	984	602
45°	809	816	823	831	835	623
55°	631	639	651	660	664	564
65°	434	441	456	475	482	429
75°	220	233	267	299	310	234
85°	38	70	121	160	174	48
90°	0	26	71	107	120	2
95°	0	7	37	67	77	0
105°	1	1	6	18	24	1
115°	1	1	1	3	5	1
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1221.1	1221.1	1221.1	1221.1	1221.1
2.5°	1222.5	1220.8	1215.3	1220.8	1220.5
5°	1218.5	1216.2	1210.7	1216.5	1216.5
7.5°	1210.4	1209.6	1204.7	1211.3	1211.3
10°	1200.9	1200.7	1196.6	1203.8	1204.1
12.5°	1187.7	1188.9	1185.1	1192.0	1192.9
15°	1172.2	1174.2	1171.0	1177.6	1177.3
17.5°	1155.2	1156.3	1154.0	1161.5	1161.2
20°	1134.2	1135.6	1133.9	1141.6	1142.5
22.5°	1110.8	1112.9	1112.6	1120.6	1122.9
25°	1086.1	1086.9	1088.1	1097.3	1099.0
27.5°	1058.7	1060.2	1062.2	1070.5	1072.3
30°	1028.8	1031.1	1033.4	1042.0	1044.3
32.5°	997.1	999.4	1002.3	1013.5	1014.7
35°	961.4	965.8	969.8	979.6	983.6
37.5°	925.7	931.2	935.0	945.3	948.5
40°	888.0	893.5	899.6	910.5	912.5
42.5°	848.6	854.9	862.1	871.9	875.4
45°	808.9	816.1	822.7	830.8	834.8
47.5°	766.0	773.2	781.2	790.5	793.0
50°	721.7	730.0	738.6	747.3	751.9
52.5°	676.2	686.3	696.0	705.3	709.6
55°	631.3	638.8	650.6	660.1	664.4
57.5°	584.6	591.0	601.6	617.2	619.5
60°	537.1	542.9	553.8	566.5	571.7
62.5°	484.8	492.5	504.0	520.2	524.8
65°	433.8	441.3	456.5	474.7	482.2
67.5°	384.6	387.2	406.7	425.7	437.8
70°	326.4	336.2	359.0	382.3	391.5
72.5°	276.3	286.1	311.2	338.5	350.0
75°	219.6	233.2	267.1	299.1	310.3
77.5°	169.8	184.8	226.8	259.1	272.0
80°	118.6	141.9	187.7	224.0	238.1
82.5°	74.6	103.3	152.3	190.3	202.7
85°	38.0	70.2	120.6	159.5	173.6
87.5°	10.1	45.5	93.8	131.0	145.4
90°	0.3	26.2	71.1	106.8	119.7
92.5°	0.3	14.7	53.0	84.9	98.2
95°	0.3	6.9	36.8	66.8	77.1
97.5°	0.3	2.9	25.3	50.4	60.7
100°	0.3	1.4	16.1	36.6	45.5
102.5°	0.6	0.9	10.1	26.2	33.4
105°	0.6	0.9	6.0	17.8	23.9



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CATALOG NUMBER: HVSL12-4-LD4-1HI-30-UNV-O-EDD-90

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.9	0.9	1.2	4.9	7.2
115°	0.9	0.9	1.2	3.2	4.6
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - - 90°-270°







107.5°	0.6	0.9	3.5	12.1	16.4
110°	0.9	0.9	2.0	7.5	10.9



(END OF REPORT)