

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: P580242

Luminaire Tested: **HVSL12-4-LD4-3LO-50-UNV-O-EDD**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580242
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-LD4-3LO-50-UNV-O-EDD
Description: 4 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 5000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

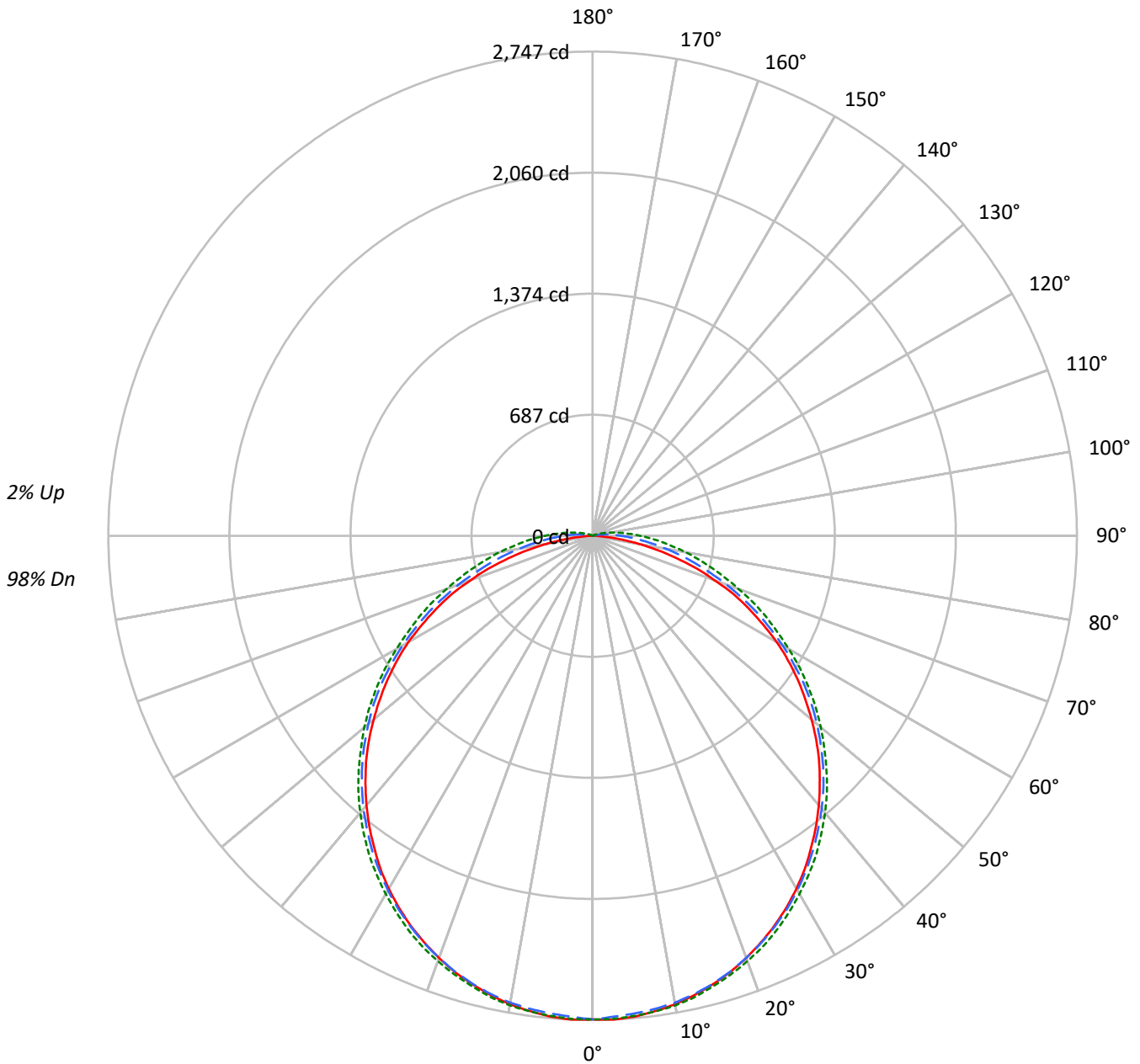
Lumens per Lamp: N/A
Luminaire Lumens: 8297.0 lumens
Efficiency: N/A
Efficacy: 116.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 71.4
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°	7384	7384	7384
5°	7370	7256	7279
10°	7321	7162	7183
15°	7258	7053	7056
20°	7190	6926	6932
25°	7109	6794	6805
30°	7015	6651	6653
35°	6896	6490	6503
40°	6774	6320	6320
45°	6641	6132	6119
50°	6468	5911	5901
55°	6282	5667	5658
60°	6059	5336	5365
65°	5698	4964	5083
70°	5179	4518	4748
75°	4441	4027	4470
80°	3340	3561	4262
85°	1786	3118	4146



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.7	3.1
10°-20°	744.9	9.0
20°-30°	1130.2	13.6
30°-40°	1366.6	16.5
40°-50°	1426.0	17.2
50°-60°	1303.8	15.7
60°-70°	1016.4	12.2
70°-80°	635.8	7.7
80°-90°	288.8	3.5
90°-100°	96.8	1.2
100°-110°	24.3	0.3
110°-120°	3.8	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°	2134.8	25.7
0°-40°	3501.4	42.2
0°-60°	6231.2	75.1
0°-90°	8172.1	98.5
90°-120°	124.9	1.5
90°-150°	124.9	1.5
90°-180°	125.0	1.5
0°-180°	8297.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2744	2744	2744	2744	2744	
5°	2738	2733	2721	2734	2734	260
15°	2634	2639	2632	2646	2646	744
25°	2441	2443	2445	2466	2470	1125
35°	2161	2170	2179	2201	2210	1352
45°	1818	1834	1849	1867	1876	1401
55°	1419	1436	1462	1483	1493	1267
65°	975	992	1026	1067	1084	965
75°	494	524	600	672	697	526
85°	85	158	271	358	390	108
90°	1	59	160	240	269	3
95°	1	16	83	150	173	0
105°	1	2	14	40	54	1
115°	2	2	3	7	10	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	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2744.1	2744.1	2744.1	2744.1	2744.1
2.5°	2747.4	2743.5	2731.2	2743.5	2742.9
5°	2738.3	2733.1	2720.9	2733.8	2733.8
7.5°	2720.2	2718.3	2707.3	2722.2	2722.2
10°	2698.9	2698.2	2689.2	2705.3	2706.0
12.5°	2669.1	2671.7	2663.3	2678.8	2680.8
15°	2634.2	2638.7	2631.6	2646.5	2645.8
17.5°	2596.0	2598.6	2593.4	2610.2	2609.6
20°	2548.8	2552.0	2548.1	2565.6	2567.5
22.5°	2496.4	2500.9	2500.3	2518.4	2523.6
25°	2440.8	2442.7	2445.3	2466.0	2469.9
27.5°	2379.3	2382.5	2387.1	2405.8	2409.7
30°	2312.0	2317.2	2322.4	2341.8	2347.0
32.5°	2240.9	2246.0	2252.5	2277.7	2280.3
35°	2160.6	2170.3	2179.4	2201.4	2210.5
37.5°	2080.4	2092.7	2101.1	2124.4	2131.5
40°	1995.7	2008.0	2021.6	2046.1	2050.7
42.5°	1907.1	1921.3	1937.5	1959.5	1967.2
45°	1817.8	1834.0	1848.8	1867.0	1876.0
47.5°	1721.4	1737.6	1755.7	1776.4	1782.2
50°	1621.8	1640.5	1659.9	1679.4	1689.7
52.5°	1519.6	1542.2	1564.2	1584.9	1594.6
55°	1418.6	1435.5	1462.0	1483.3	1493.0
57.5°	1313.9	1328.1	1352.0	1387.0	1392.1
60°	1207.1	1220.1	1244.6	1273.1	1284.7
62.5°	1089.4	1106.8	1132.7	1168.9	1179.3
65°	974.9	991.7	1026.0	1066.7	1083.6
67.5°	864.3	870.1	914.1	956.8	983.9
70°	733.6	755.6	806.7	859.1	879.8
72.5°	621.0	643.0	699.3	760.8	786.6
75°	493.6	524.0	600.3	672.1	697.4
77.5°	381.7	415.3	509.8	582.2	611.3
80°	266.5	318.9	421.8	503.3	535.0
82.5°	167.5	232.2	342.2	427.6	455.4
85°	85.4	157.8	271.1	358.4	390.1
87.5°	22.6	102.2	210.9	294.3	326.7
90°	0.6	58.9	159.8	240.0	269.1
92.5°	0.6	33.0	119.0	190.8	220.6
95°	0.6	15.5	82.8	150.1	173.4
97.5°	0.6	6.5	56.9	113.2	136.5
100°	0.6	3.2	36.2	82.2	102.2
102.5°	1.3	1.9	22.6	58.9	75.0
105°	1.3	1.9	13.6	40.1	53.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.9	1.9	2.6	11.0	16.2
115°	1.9	1.9	2.6	7.1	10.4
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°	1.3	1.9	7.8	27.2	36.9
110°	1.9	1.9	4.5	16.8	24.6



(END OF REPORT)