

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: P580282

Luminaire Tested: **HVSL12-8-LD4-2HI-50-UNV-O-EDD**

Issue Date: 12/16/2022



**Test Information**

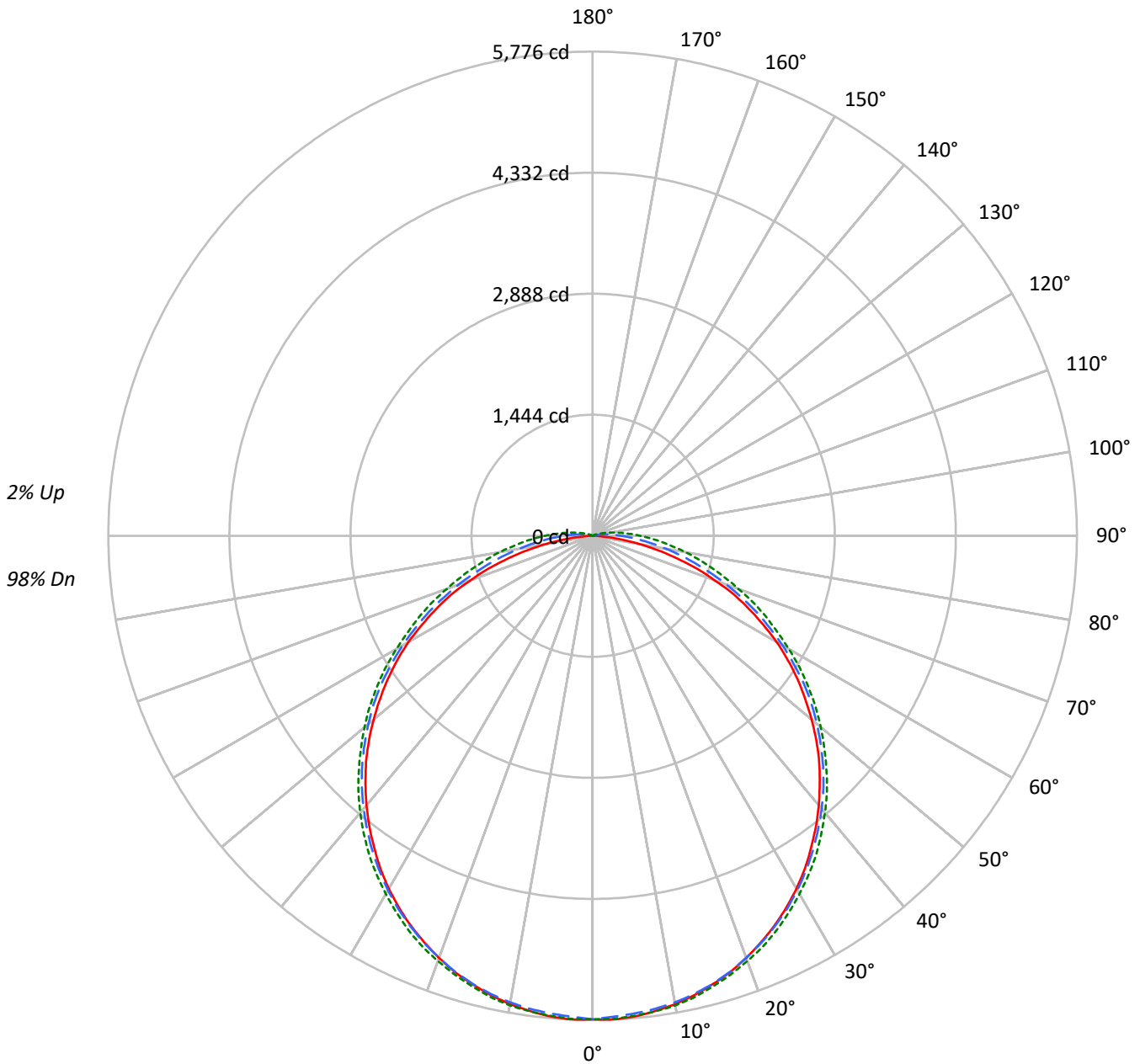
Test Method: LM-79-08  
Report Number: P580282  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-135-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 12/16/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: HVSL12-8-LD4-2HI-50-UNV-O-EDD  
Description: 8 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 5000K, 80 CRI LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17444.0 lumens  
Efficiency: N/A  
Efficacy: 95.6 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 8' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 182.4  
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°	7763	7763	7763
5°	7762	7638	7651
10°	7724	7548	7551
15°	7672	7442	7417
20°	7615	7318	7287
25°	7545	7188	7153
30°	7462	7046	6993
35°	7354	6887	6836
40°	7243	6718	6643
45°	7124	6530	6433
50°	6964	6308	6204
55°	6794	6062	5947
60°	6592	5726	5640
65°	6246	5347	5343
70°	5739	4890	4991
75°	5005	4389	4699
80°	3883	3922	4480
85°	2238	3497	4358



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	546.0	3.1
10°-20°	1566.1	9.0
20°-30°	2376.2	13.6
30°-40°	2873.3	16.5
40°-50°	2998.1	17.2
50°-60°	2741.1	15.7
60°-70°	2136.8	12.2
70°-80°	1336.7	7.7
80°-90°	607.1	3.5
90°-100°	203.5	1.2
100°-110°	51.1	0.3
110°-120°	8.1	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°	4488.3	25.7
0°-40°	7361.6	42.2
0°-60°	13100.7	75.1
0°-90°	17181.4	98.5
90°-120°	262.6	1.5
90°-150°	262.6	1.5
90°-180°	263.0	1.5
0°-180°	17444.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5769	5769	5769	5769	5769	
5°	5757	5746	5720	5748	5748	547
15°	5538	5548	5533	5564	5563	1563
25°	5132	5136	5141	5185	5193	2365
35°	4543	4563	4582	4628	4647	2843
45°	3822	3856	3887	3925	3944	2945
55°	2983	3018	3074	3119	3139	2665
65°	2050	2085	2157	2243	2278	2028
75°	1038	1102	1262	1413	1466	1106
85°	180	332	570	754	820	227
90°	1	124	336	505	566	7
95°	1	33	174	316	364	1
105°	3	4	29	84	113	3
115°	4	4	5	15	22	3
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°	5769.4	5769.4	5769.4	5769.4	5769.4
2.5°	5776.2	5768.1	5742.2	5768.1	5766.7
5°	5757.2	5746.3	5720.5	5747.7	5747.7
7.5°	5719.1	5715.0	5691.9	5723.2	5723.2
10°	5674.2	5672.9	5653.8	5687.8	5689.2
12.5°	5611.7	5617.1	5599.4	5632.1	5636.1
15°	5538.2	5547.7	5532.8	5564.1	5562.7
17.5°	5458.0	5463.4	5452.5	5487.9	5486.5
20°	5358.7	5365.5	5357.3	5394.0	5398.1
22.5°	5248.5	5258.0	5256.7	5294.8	5305.6
25°	5131.5	5135.6	5141.1	5184.6	5192.8
27.5°	5002.3	5009.1	5018.7	5058.1	5066.3
30°	4860.9	4871.8	4882.7	4923.5	4934.3
32.5°	4711.3	4722.2	4735.8	4788.8	4794.3
35°	4542.6	4563.0	4582.1	4628.3	4647.4
37.5°	4374.0	4399.8	4417.5	4466.5	4481.4
40°	4195.8	4221.7	4250.2	4301.9	4311.4
42.5°	4009.5	4039.4	4073.4	4119.7	4136.0
45°	3821.8	3855.8	3887.1	3925.2	3944.2
47.5°	3619.1	3653.2	3691.2	3734.8	3747.0
50°	3409.7	3449.1	3489.9	3530.7	3552.5
52.5°	3194.8	3242.4	3288.7	3332.2	3352.6
55°	2982.6	3018.0	3073.8	3118.6	3139.0
57.5°	2762.3	2792.2	2842.5	2916.0	2926.9
60°	2537.9	2565.1	2616.8	2676.6	2701.1
62.5°	2290.4	2327.1	2381.5	2457.6	2479.4
65°	2049.6	2085.0	2157.1	2242.8	2278.1
67.5°	1817.1	1829.3	1921.8	2011.5	2068.7
70°	1542.3	1588.6	1696.0	1806.2	1849.7
72.5°	1305.7	1351.9	1470.2	1599.4	1653.8
75°	1037.7	1101.7	1262.1	1413.1	1466.2
77.5°	802.4	873.2	1071.7	1224.1	1285.3
80°	560.3	670.5	886.8	1058.1	1124.8
82.5°	352.3	488.3	719.5	899.0	957.5
85°	179.5	331.9	569.9	753.5	820.1
87.5°	47.6	214.9	443.4	618.8	686.8
90°	1.4	123.8	335.9	504.6	565.8
92.5°	1.4	69.4	250.3	401.2	463.8
95°	1.4	32.6	174.1	315.5	364.5
97.5°	1.4	13.6	119.7	238.0	287.0
100°	1.4	6.8	76.2	172.7	214.9
102.5°	2.7	4.1	47.6	123.8	157.8
105°	2.7	4.1	28.6	84.3	112.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	4.1	4.1	5.4	23.1	34.0
115°	4.1	4.1	5.4	15.0	21.8
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°	2.7	4.1	16.3	57.1	77.5
110°	4.1	4.1	9.5	35.4	51.7



(END OF REPORT)