

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: P580310

Luminaire Tested: **HVSL12-8-LD4-3LO-35-UNV-O-EDD**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580310
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-LD4-3LO-35-UNV-O-EDD
Description: 8 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 3500K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

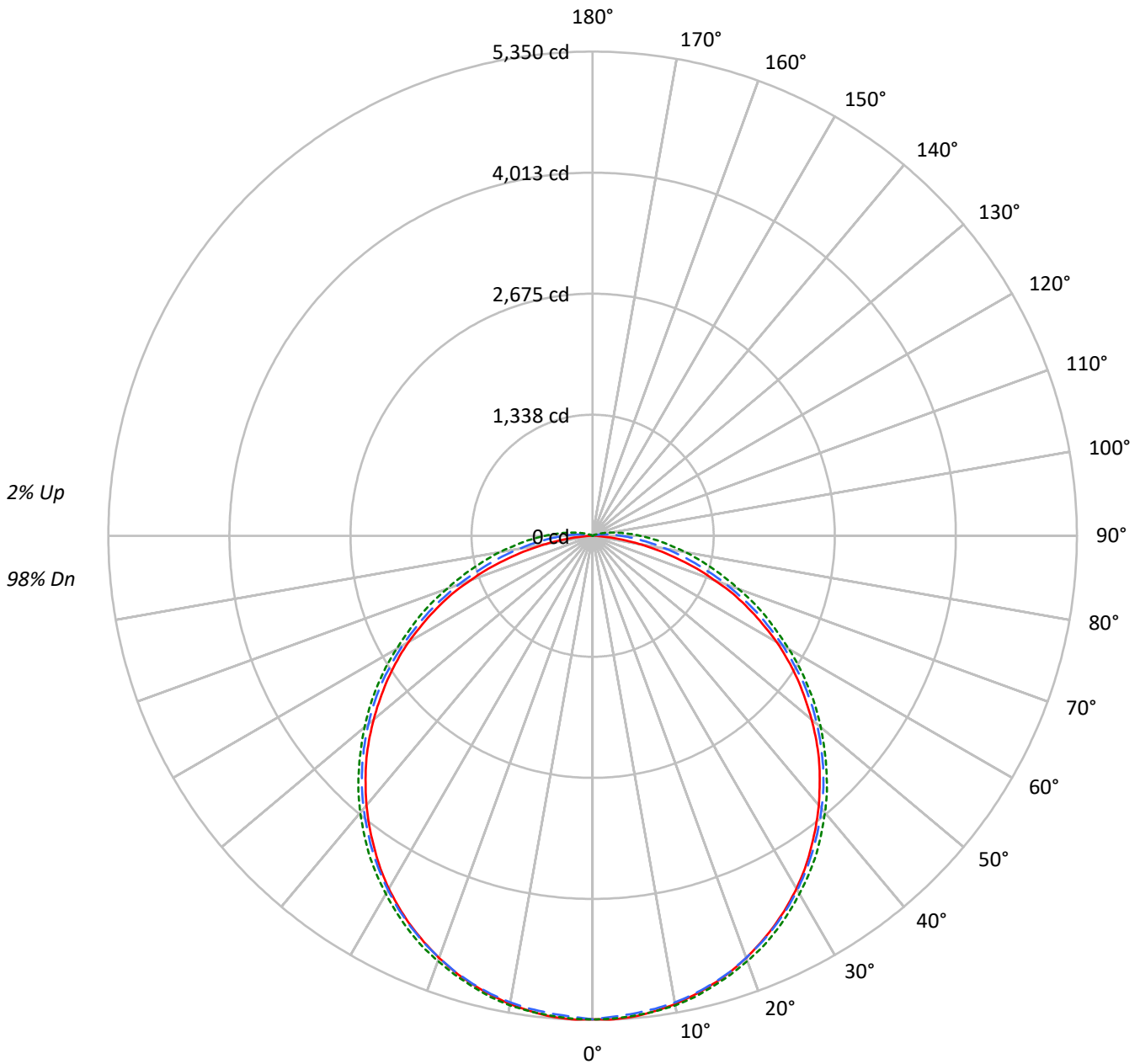
Lumens per Lamp: N/A
Luminaire Lumens: 16156.0 lumens
Efficiency: N/A
Efficacy: 113.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 8' x H: 0.17')
CIE Type: Direct

Input Watts (W): 142.7
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°	7189	7189	7189
5°	7189	7074	7086
10°	7154	6991	6993
15°	7105	6893	6870
20°	7053	6777	6749
25°	6988	6657	6625
30°	6911	6526	6477
35°	6811	6378	6331
40°	6708	6222	6153
45°	6598	6048	5958
50°	6450	5843	5746
55°	6293	5615	5508
60°	6105	5304	5224
65°	5785	4952	4948
70°	5315	4529	4622
75°	4636	4065	4352
80°	3596	3632	4149
85°	2073	3239	4036



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	505.7	3.1
10°-20°	1450.4	9.0
20°-30°	2200.8	13.6
30°-40°	2661.1	16.5
40°-50°	2776.7	17.2
50°-60°	2538.7	15.7
60°-70°	1979.1	12.2
70°-80°	1238.0	7.7
80°-90°	562.3	3.5
90°-100°	188.4	1.2
100°-110°	47.3	0.3
110°-120°	7.5	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°	4156.9	25.7
0°-40°	6818.0	42.2
0°-60°	12133.4	75.1
0°-90°	15912.8	98.5
90°-120°	243.2	1.5
90°-150°	243.2	1.5
90°-180°	243.0	1.5
0°-180°	16156.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5343	5343	5343	5343	5343	
5°	5332	5322	5298	5323	5323	506
15°	5129	5138	5124	5153	5152	1448
25°	4753	4756	4762	4802	4809	2190
35°	4207	4226	4244	4287	4304	2633
45°	3540	3571	3600	3635	3653	2727
55°	2762	2795	2847	2888	2907	2468
65°	1898	1931	1998	2077	2110	1878
75°	961	1020	1169	1309	1358	1025
85°	166	307	528	698	760	210
90°	1	115	311	467	524	7
95°	1	30	161	292	338	1
105°	2	4	26	78	105	3
115°	4	4	5	14	20	2
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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CATALOG NUMBER: HVSL12-8-LD4-3LO-35-UNV-O-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5343.4	5343.4	5343.4	5343.4	5343.4
2.5°	5349.7	5342.2	5318.2	5342.2	5340.9
5°	5332.1	5322.0	5298.1	5323.3	5323.3
7.5°	5296.8	5293.0	5271.6	5300.6	5300.6
10°	5255.3	5254.0	5236.4	5267.8	5269.1
12.5°	5197.3	5202.3	5186.0	5216.2	5220.0
15°	5129.3	5138.1	5124.3	5153.2	5152.0
17.5°	5055.0	5060.0	5049.9	5082.7	5081.4
20°	4963.0	4969.3	4961.8	4995.8	4999.5
22.5°	4861.0	4869.8	4868.5	4903.8	4913.9
25°	4752.7	4756.4	4761.5	4801.8	4809.3
27.5°	4633.0	4639.3	4648.1	4684.6	4692.2
30°	4502.0	4512.1	4522.1	4559.9	4570.0
32.5°	4363.4	4373.5	4386.1	4435.2	4440.3
35°	4207.2	4226.1	4243.8	4286.6	4304.2
37.5°	4051.0	4075.0	4091.3	4136.7	4150.5
40°	3886.0	3909.9	3936.4	3984.3	3993.1
42.5°	3713.4	3741.2	3772.6	3815.5	3830.6
45°	3539.6	3571.1	3600.1	3635.3	3653.0
47.5°	3351.9	3383.4	3418.7	3459.0	3470.3
50°	3157.9	3194.5	3232.3	3270.0	3290.2
52.5°	2958.9	3003.0	3045.8	3086.1	3105.0
55°	2762.4	2795.2	2846.8	2888.4	2907.3
57.5°	2558.3	2586.1	2632.7	2700.7	2710.8
60°	2350.5	2375.7	2423.6	2479.0	2501.7
62.5°	2121.2	2155.3	2205.6	2276.2	2296.3
65°	1898.3	1931.0	1997.8	2077.2	2109.9
67.5°	1682.9	1694.2	1779.9	1863.0	1915.9
70°	1428.4	1471.3	1570.8	1672.8	1713.1
72.5°	1209.3	1252.1	1361.7	1481.3	1531.7
75°	961.1	1020.3	1169.0	1308.8	1357.9
77.5°	743.2	808.7	992.6	1133.7	1190.4
80°	519.0	621.0	821.3	980.0	1041.7
82.5°	326.2	452.2	666.4	832.6	886.8
85°	166.3	307.4	527.8	697.8	759.6
87.5°	44.1	199.0	410.6	573.1	636.1
90°	1.3	114.6	311.1	467.3	524.0
92.5°	1.3	64.2	231.8	371.6	429.5
95°	1.3	30.2	161.2	292.2	337.6
97.5°	1.3	12.6	110.8	220.4	265.8
100°	1.3	6.3	70.5	160.0	199.0
102.5°	2.5	3.8	44.1	114.6	146.1
105°	2.5	3.8	26.5	78.1	104.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	3.8	3.8	5.0	21.4	31.5
115°	3.8	3.8	5.0	13.9	20.2
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°	2.5	3.8	15.1	52.9	71.8
110°	3.8	3.8	8.8	32.8	47.9



(END OF REPORT)