

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: P580314

Luminaire Tested: **HVSL12-8-LD4-3LO-50-UNV-O-EDD**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580314
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-50-UNV-O-EDD
Description: 8 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 5000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

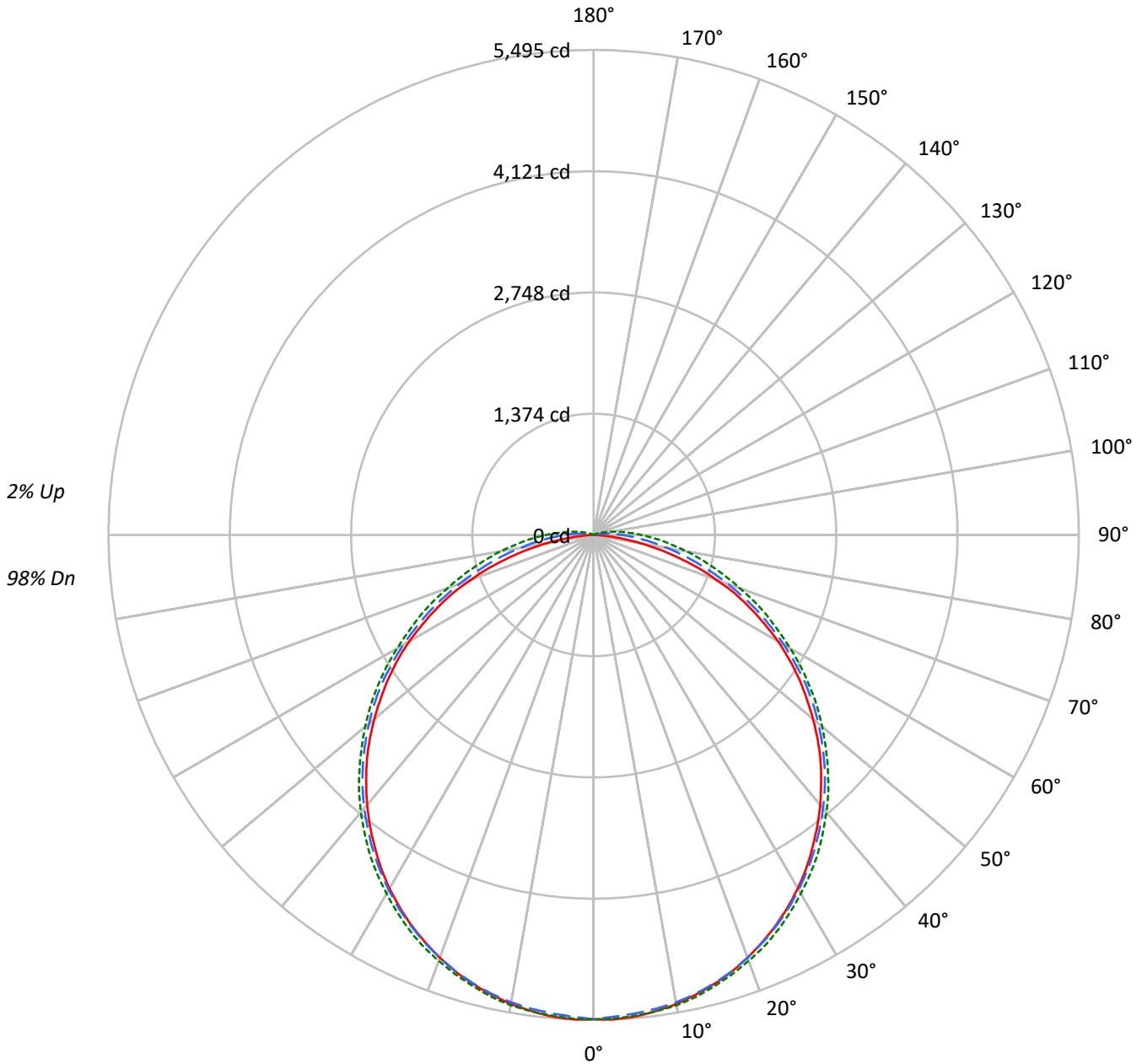
Lumens per Lamp: N/A
Luminaire Lumens: 16594.0 lumens
Efficiency: N/A
Efficacy: 116.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 8' x H: 0.17')
CIE Type: Direct

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

TEST NUMBER: P580314

CATALOG NUMBER: HVSL12-8-LD4-3LO-50-UNV-O-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P580314

CATALOG NUMBER: HVSL12-8-LD4-3LO-50-UNV-O-EDD

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°	7383	7265	7279
10°	7348	7180	7183
15°	7298	7080	7056
20°	7244	6961	6932
25°	7177	6838	6804
30°	7099	6703	6652
35°	6996	6551	6503
40°	6890	6390	6320
45°	6777	6212	6119
50°	6625	6001	5901
55°	6463	5767	5658
60°	6270	5447	5365
65°	5942	5086	5082
70°	5459	4652	4748
75°	4762	4175	4470
80°	3693	3731	4262
85°	2130	3327	4146



TEST NUMBER: P580314

CATALOG NUMBER: HVSL12-8-LD4-3LO-50-UNV-O-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	519.4	3.1
10°-20°	1489.8	9.0
20°-30°	2260.5	13.6
30°-40°	2733.3	16.5
40°-50°	2852.0	17.2
50°-60°	2607.6	15.7
60°-70°	2032.7	12.2
70°-80°	1271.6	7.7
80°-90°	577.5	3.5
90°-100°	193.6	1.2
100°-110°	48.6	0.3
110°-120°	7.7	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°	4269.6	25.7
0°-40°	7002.9	42.2
0°-60°	12462.4	75.1
0°-90°	16344.2	98.5
90°-120°	249.8	1.5
90°-150°	249.8	1.5
90°-180°	250.0	1.5
0°-180°	16594.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5488	5488	5488	5488	5488	
5°	5477	5466	5442	5468	5468	520
15°	5268	5277	5263	5293	5292	1487
25°	4882	4885	4891	4932	4940	2249
35°	4321	4341	4359	4403	4421	2705
45°	3636	3668	3698	3734	3752	2801
55°	2837	2871	2924	2967	2986	2535
65°	1950	1983	2052	2134	2167	1929
75°	987	1048	1201	1344	1395	1052
85°	171	316	542	717	780	216
90°	1	118	320	480	538	7
95°	1	31	166	300	347	1
105°	3	4	27	80	107	3
115°	4	4	5	14	21	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



TEST NUMBER: P580314

CATALOG NUMBER: HVSL12-8-LD4-3LO-50-UNV-O-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5488.3	5488.3	5488.3	5488.3	5488.3
2.5°	5494.8	5487.0	5462.4	5487.0	5485.7
5°	5476.6	5466.3	5441.7	5467.6	5467.6
7.5°	5440.4	5436.5	5414.5	5444.3	5444.3
10°	5397.7	5396.4	5378.3	5410.7	5412.0
12.5°	5338.2	5343.4	5326.6	5357.6	5361.5
15°	5268.3	5277.4	5263.2	5292.9	5291.6
17.5°	5192.0	5197.2	5186.8	5220.5	5219.2
20°	5097.6	5104.0	5096.3	5131.2	5135.1
22.5°	4992.8	5001.8	5000.5	5036.8	5047.1
25°	4881.5	4885.4	4890.6	4932.0	4939.7
27.5°	4758.6	4765.1	4774.1	4811.6	4819.4
30°	4624.0	4634.4	4644.7	4683.6	4693.9
32.5°	4481.7	4492.1	4505.0	4555.5	4560.6
35°	4321.3	4340.7	4358.8	4402.8	4420.9
37.5°	4160.9	4185.4	4202.3	4248.8	4263.1
40°	3991.4	4016.0	4043.1	4092.3	4101.3
42.5°	3814.1	3842.6	3874.9	3918.9	3934.4
45°	3635.6	3667.9	3697.7	3733.9	3752.0
47.5°	3442.8	3475.1	3511.4	3552.8	3564.4
50°	3243.6	3281.1	3319.9	3358.7	3379.4
52.5°	3039.1	3084.4	3128.4	3169.8	3189.2
55°	2837.3	2870.9	2924.0	2966.7	2986.1
57.5°	2627.7	2656.2	2704.0	2773.9	2784.3
60°	2414.2	2440.1	2489.3	2546.2	2569.5
62.5°	2178.8	2213.7	2265.4	2337.9	2358.6
65°	1949.8	1983.4	2052.0	2133.5	2167.1
67.5°	1728.5	1740.2	1828.1	1913.5	1967.9
70°	1467.2	1511.2	1613.4	1718.2	1759.6
72.5°	1242.0	1286.0	1398.6	1521.5	1573.3
75°	987.2	1048.0	1200.6	1344.3	1394.7
77.5°	763.3	830.6	1019.5	1164.4	1222.6
80°	533.0	637.8	843.6	1006.6	1070.0
82.5°	335.1	464.5	684.4	855.2	910.8
85°	170.8	315.7	542.1	716.8	780.2
87.5°	45.3	204.4	421.8	588.7	653.4
90°	1.3	117.7	319.6	480.0	538.2
92.5°	1.3	66.0	238.1	381.7	441.2
95°	1.3	31.1	165.6	300.2	346.7
97.5°	1.3	12.9	113.9	226.4	273.0
100°	1.3	6.5	72.5	164.3	204.4
102.5°	2.6	3.9	45.3	117.7	150.1
105°	2.6	3.9	27.2	80.2	107.4



TEST NUMBER: P580314

CATALOG NUMBER: HVSL12-8-LD4-3LO-50-UNV-O-EDD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	3.9	3.9	5.2	22.0	32.3
115°	3.9	3.9	5.2	14.2	20.7
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°	2.6	3.9	15.5	54.3	73.7
110°	3.9	3.9	9.1	33.6	49.2



(END OF REPORT)