

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: P580258

Luminaire Tested: **HVSL12-8-LD4-1HI-50-UNV-O-EDD**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580258
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-LD4-1HI-50-UNV-O-EDD
Description: 8 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 5000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

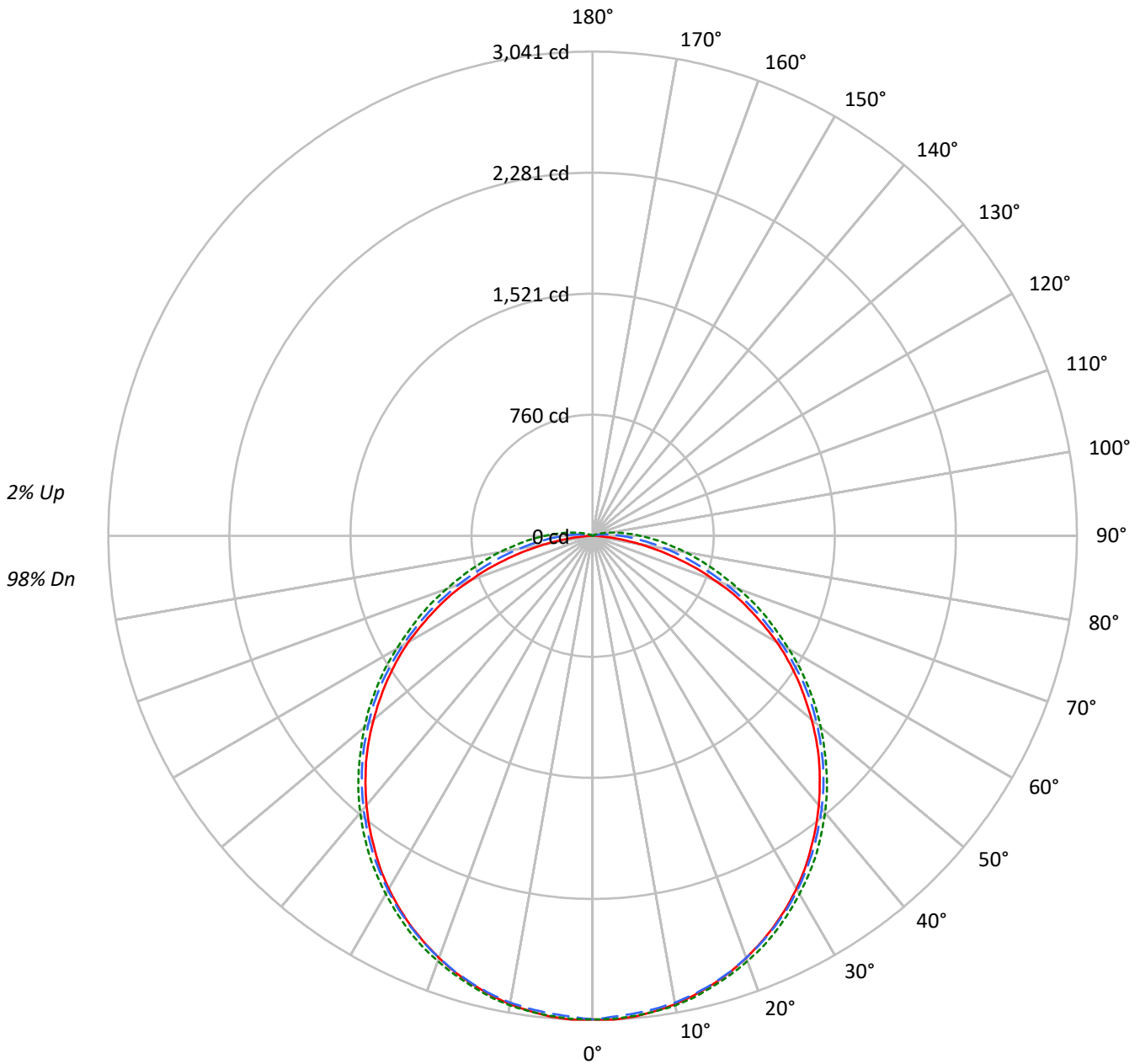
Lumens per Lamp: N/A
Luminaire Lumens: 9185.0 lumens
Efficiency: N/A
Efficacy: 100.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 8' x H: 0.17')
CIE Type: Direct

Input Watts (W): 91
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: P580258

CATALOG NUMBER: HVSL12-8-LD4-1HI-50-UNV-O-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P580258

CATALOG NUMBER: HVSL12-8-LD4-1HI-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°	4087	4087	4087
5°	4087	4022	4029
10°	4067	3974	3976
15°	4039	3919	3906
20°	4010	3853	3837
25°	3973	3785	3766
30°	3929	3710	3682
35°	3872	3626	3599
40°	3814	3537	3498
45°	3751	3439	3387
50°	3667	3322	3266
55°	3578	3192	3132
60°	3471	3015	2970
65°	3289	2815	2813
70°	3022	2575	2628
75°	2636	2311	2474
80°	2044	2065	2359
85°	1178	1842	2294



TEST NUMBER: P580258

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	287.5	3.1
10°-20°	824.6	9.0
20°-30°	1251.2	13.6
30°-40°	1512.9	16.5
40°-50°	1578.6	17.2
50°-60°	1443.3	15.7
60°-70°	1125.1	12.2
70°-80°	703.8	7.7
80°-90°	319.7	3.5
90°-100°	107.1	1.2
100°-110°	26.9	0.3
110°-120°	4.2	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°	2363.3	25.7
0°-40°	3876.2	42.2
0°-60°	6898.1	75.1
0°-90°	9046.7	98.5
90°-120°	138.3	1.5
90°-150°	138.3	1.5
90°-180°	138.0	1.5
0°-180°	9185.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3038	3038	3038	3038	3038	
5°	3031	3026	3012	3026	3026	288
15°	2916	2921	2913	2930	2929	823
25°	2702	2704	2707	2730	2734	1245
35°	2392	2403	2413	2437	2447	1497
45°	2012	2030	2047	2067	2077	1551
55°	1570	1589	1618	1642	1653	1403
65°	1079	1098	1136	1181	1200	1068
75°	546	580	665	744	772	582
85°	94	175	300	397	432	120
90°	1	65	177	266	298	4
95°	1	17	92	166	192	1
105°	1	2	15	44	59	1
115°	2	2	3	8	12	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



TEST NUMBER: P580258

CATALOG NUMBER: HVSL12-8-LD4-1HI-50-UNV-O-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3037.8	3037.8	3037.8	3037.8	3037.8
2.5°	3041.4	3037.1	3023.5	3037.1	3036.4
5°	3031.4	3025.7	3012.1	3026.4	3026.4
7.5°	3011.3	3009.2	2997.0	3013.5	3013.5
10°	2987.7	2987.0	2977.0	2994.9	2995.6
12.5°	2954.8	2957.6	2948.3	2965.5	2967.7
15°	2916.1	2921.1	2913.2	2929.7	2929.0
17.5°	2873.8	2876.7	2871.0	2889.6	2888.9
20°	2821.6	2825.2	2820.9	2840.2	2842.3
22.5°	2763.6	2768.6	2767.9	2787.9	2793.6
25°	2702.0	2704.1	2707.0	2729.9	2734.2
27.5°	2633.9	2637.5	2642.5	2663.3	2667.6
30°	2559.5	2565.2	2570.9	2592.4	2598.1
32.5°	2480.7	2486.4	2493.6	2521.5	2524.4
35°	2391.9	2402.6	2412.7	2437.0	2447.0
37.5°	2303.1	2316.7	2326.0	2351.8	2359.7
40°	2209.3	2222.9	2237.9	2265.1	2270.1
42.5°	2111.2	2126.9	2144.8	2169.2	2177.8
45°	2012.3	2030.2	2046.7	2066.8	2076.8
47.5°	1905.6	1923.5	1943.6	1966.5	1973.0
50°	1795.3	1816.1	1837.6	1859.1	1870.5
52.5°	1682.2	1707.3	1731.6	1754.5	1765.3
55°	1570.5	1589.1	1618.5	1642.1	1652.8
57.5°	1454.5	1470.2	1496.7	1535.4	1541.1
60°	1336.3	1350.6	1377.8	1409.4	1422.2
62.5°	1206.0	1225.3	1254.0	1294.1	1305.5
65°	1079.2	1097.8	1135.8	1180.9	1199.5
67.5°	956.8	963.2	1011.9	1059.2	1089.2
70°	812.1	836.4	893.0	951.0	973.9
72.5°	687.5	711.8	774.1	842.2	870.8
75°	546.4	580.1	664.6	744.1	772.0
77.5°	422.5	459.8	564.3	644.5	676.7
80°	295.0	353.1	466.9	557.2	592.2
82.5°	185.5	257.1	378.8	473.4	504.2
85°	94.5	174.7	300.1	396.7	431.8
87.5°	25.1	113.1	233.5	325.8	361.6
90°	0.7	65.2	176.9	265.7	297.9
92.5°	0.7	36.5	131.8	211.3	244.2
95°	0.7	17.2	91.7	166.1	191.9
97.5°	0.7	7.2	63.0	125.3	151.1
100°	0.7	3.6	40.1	90.9	113.1
102.5°	1.4	2.1	25.1	65.2	83.1
105°	1.4	2.1	15.0	44.4	59.4



TEST NUMBER: P580258

CATALOG NUMBER: HVSL12-8-LD4-1HI-50-UNV-O-EDD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.1	2.1	2.9	12.2	17.9
115°	2.1	2.1	2.9	7.9	11.5
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°	1.4	2.1	8.6	30.1	40.8
110°	2.1	2.1	5.0	18.6	27.2



(END OF REPORT)