

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: P580760

Luminaire Tested: **HVSL8-4-LD4-2HI-40-UNV-O-EDD**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580760
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: HVSL8-4-LD4-2HI-40-UNV-O-EDD
Description: 4 FOOT, 8INCH WIDE, HVSL LED LUMINAIRE, WITH 4000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

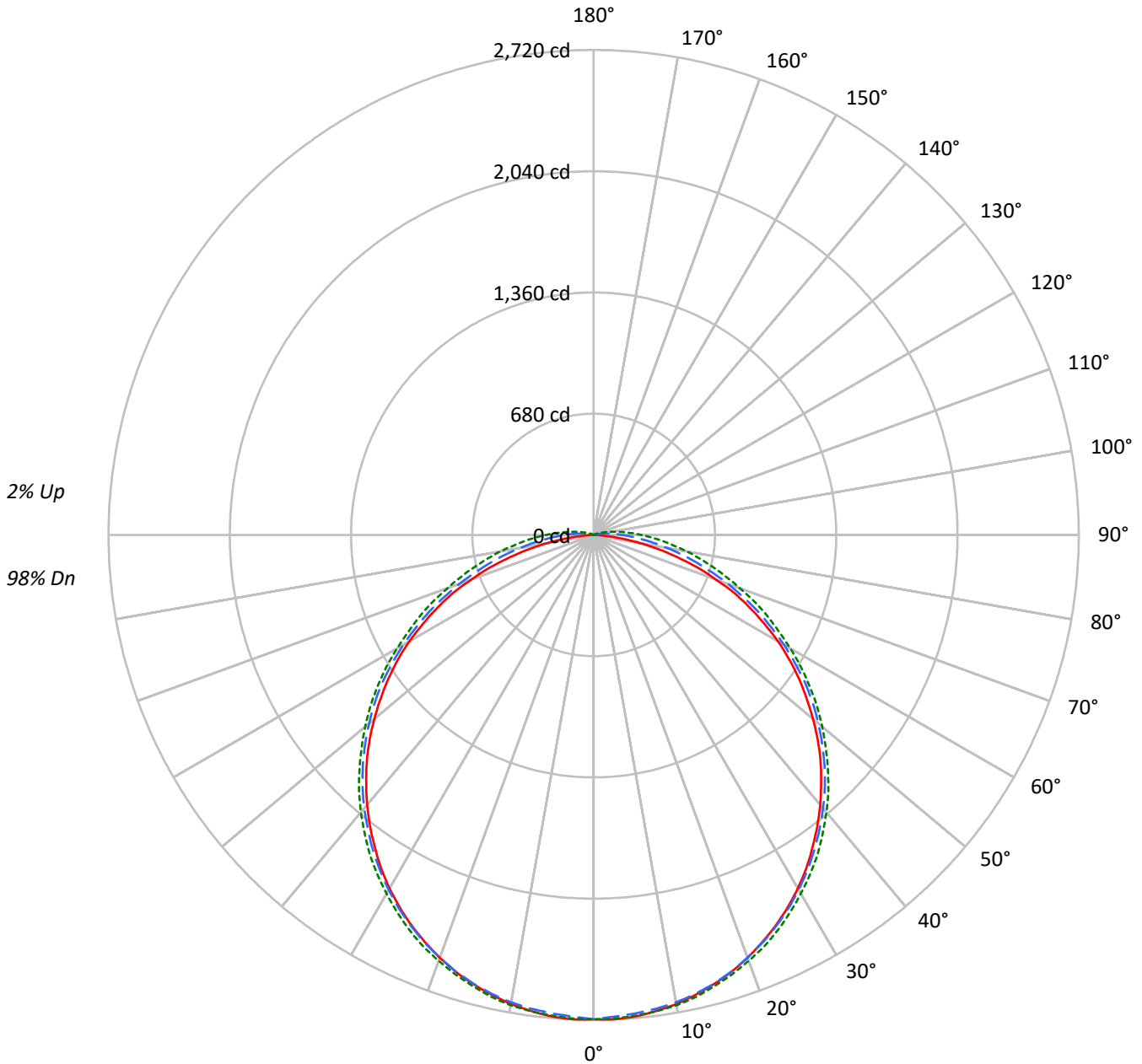
Lumens per Lamp: N/A
Luminaire Lumens: 8214.0 lumens
Efficiency: N/A
Efficacy: 92.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 88.8
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: P580760

CATALOG NUMBER: HVSL8-4-LD4-2HI-40-UNV-O-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P580760

CATALOG NUMBER: HVSL8-4-LD4-2HI-40-UNV-O-EDD

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				20
RC	80				70				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°	10966	10966	10966
5°	10944	10721	10731
10°	10872	10529	10516
15°	10777	10317	10258
20°	10677	10079	10008
25°	10556	9836	9753
30°	10418	9575	9463
35°	10241	9290	9176
40°	10059	8989	8842
45°	9862	8661	8481
50°	9606	8283	8093
55°	9329	7868	7665
60°	8998	7329	7165
65°	8462	6726	6669
70°	7690	6016	6093
75°	6594	5237	5570
80°	4962	4474	5091
85°	2651	3701	4636



TEST NUMBER: P580760

CATALOG NUMBER: HVSL8-4-LD4-2HI-40-UNV-O-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.1	3.1
10°-20°	737.4	9.0
20°-30°	1118.9	13.6
30°-40°	1353.0	16.5
40°-50°	1411.7	17.2
50°-60°	1290.7	15.7
60°-70°	1006.2	12.2
70°-80°	629.4	7.7
80°-90°	285.9	3.5
90°-100°	95.8	1.2
100°-110°	24.0	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°	2113.4	25.7
0°-40°	3466.4	42.2
0°-60°	6168.9	75.1
0°-90°	8090.4	98.5
90°-120°	123.7	1.5
90°-150°	123.7	1.5
90°-180°	124.0	1.5
0°-180°	8214.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2717	2717	2717	2717	2717	
5°	2711	2706	2694	2706	2706	257
15°	2608	2612	2605	2620	2619	736
25°	2416	2418	2421	2441	2445	1113
35°	2139	2149	2158	2179	2188	1339
45°	1800	1816	1830	1848	1857	1387
55°	1404	1421	1447	1468	1478	1255
65°	965	982	1016	1056	1073	955
75°	489	519	594	665	690	521
85°	84	156	268	355	386	107
90°	1	58	158	238	266	3
95°	1	15	82	149	172	0
105°	1	2	13	40	53	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



TEST NUMBER: P580760

CATALOG NUMBER: HVSL8-4-LD4-2HI-40-UNV-O-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2716.7	2716.7	2716.7	2716.7	2716.7
2.5°	2719.9	2716.1	2703.9	2716.1	2715.4
5°	2710.9	2705.8	2693.6	2706.4	2706.4
7.5°	2693.0	2691.1	2680.2	2694.9	2694.9
10°	2671.9	2671.2	2662.3	2678.3	2678.9
12.5°	2642.4	2645.0	2636.6	2652.0	2653.9
15°	2607.8	2612.3	2605.3	2620.0	2619.3
17.5°	2570.0	2572.6	2567.5	2584.1	2583.5
20°	2523.3	2526.5	2522.6	2539.9	2541.9
22.5°	2471.4	2475.9	2475.3	2493.2	2498.3
25°	2416.3	2418.3	2420.8	2441.3	2445.2
27.5°	2355.5	2358.7	2363.2	2381.8	2385.6
30°	2288.9	2294.0	2299.1	2318.3	2323.5
32.5°	2218.4	2223.6	2230.0	2254.9	2257.5
35°	2139.0	2148.6	2157.6	2179.4	2188.3
37.5°	2059.6	2071.8	2080.1	2103.2	2110.2
40°	1975.7	1987.9	2001.3	2025.7	2030.2
42.5°	1888.0	1902.1	1918.1	1939.9	1947.5
45°	1799.6	1815.6	1830.3	1848.3	1857.2
47.5°	1704.2	1720.2	1738.1	1758.6	1764.4
50°	1605.6	1624.1	1643.3	1662.6	1672.8
52.5°	1504.4	1526.8	1548.6	1569.0	1578.7
55°	1404.5	1421.1	1447.4	1468.5	1478.1
57.5°	1300.7	1314.8	1338.5	1373.1	1378.2
60°	1195.0	1207.8	1232.2	1260.4	1271.9
62.5°	1078.5	1095.8	1121.4	1157.3	1167.5
65°	965.1	981.8	1015.7	1056.1	1072.7
67.5°	855.6	861.4	904.9	947.2	974.1
70°	726.2	748.0	798.6	850.5	871.0
72.5°	614.8	636.6	692.3	753.1	778.8
75°	488.6	518.7	594.3	665.4	690.4
77.5°	377.9	411.2	504.7	576.4	605.2
80°	263.9	315.7	417.6	498.3	529.6
82.5°	165.9	229.9	338.8	423.3	450.9
85°	84.5	156.3	268.3	354.8	386.2
87.5°	22.4	101.2	208.8	291.4	323.4
90°	0.6	58.3	158.2	237.6	266.4
92.5°	0.6	32.7	117.8	188.9	218.4
95°	0.6	15.4	82.0	148.6	171.6
97.5°	0.6	6.4	56.4	112.1	135.1
100°	0.6	3.2	35.9	81.3	101.2
102.5°	1.3	1.9	22.4	58.3	74.3
105°	1.3	1.9	13.4	39.7	53.2



TEST NUMBER: P580760

CATALOG NUMBER: HVSL8-4-LD4-2HI-40-UNV-O-EDD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.9	1.9	2.6	10.9	16.0
115°	1.9	1.9	2.6	7.0	10.2
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°	1.3	1.9	7.7	26.9	36.5
110°	1.9	1.9	4.5	16.7	24.3



(END OF REPORT)