

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: P580254

Luminaire Tested: **HVSL12-8-LD4-1HI-35-UNV-O-EDD**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580254
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-35-UNV-O-EDD
Description: 8 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 3500K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

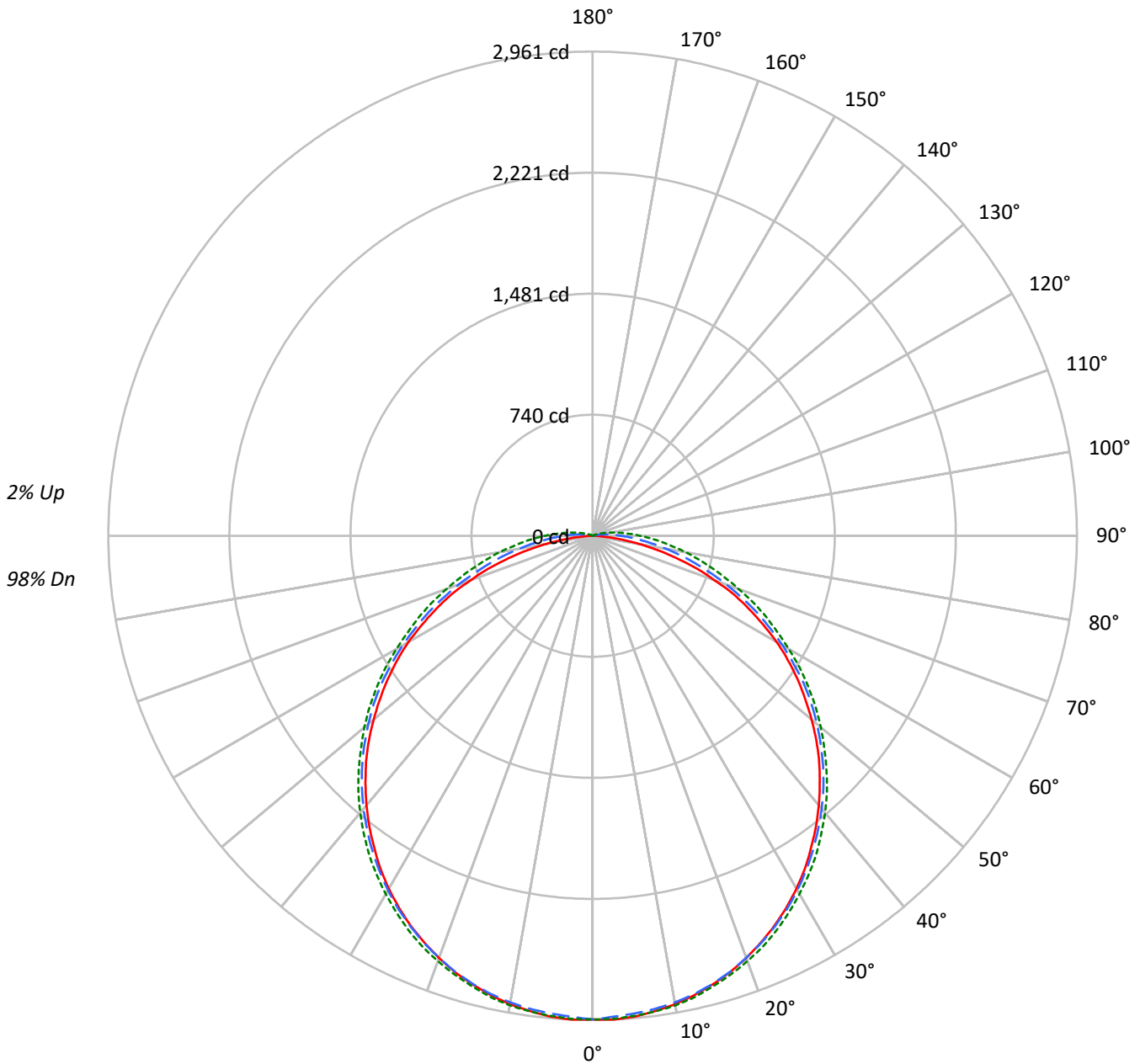
Lumens per Lamp: N/A
Luminaire Lumens: 8943.0 lumens
Efficiency: N/A
Efficacy: 98.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 8' x H: 0.17')
CIE Type: Direct

Input Watts (W): 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: P580254

CATALOG NUMBER: HVSL12-8-LD4-1HI-35-UNV-O-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P580254

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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°	3980	3980	3980
5°	3979	3916	3923
10°	3960	3870	3871
15°	3933	3816	3803
20°	3904	3751	3736
25°	3868	3685	3667
30°	3826	3612	3585
35°	3770	3531	3504
40°	3713	3444	3406
45°	3652	3348	3298
50°	3570	3234	3181
55°	3483	3108	3049
60°	3379	2936	2892
65°	3202	2741	2739
70°	2942	2507	2559
75°	2566	2250	2409
80°	1991	2010	2297
85°	1147	1793	2234



TEST NUMBER: P580254

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.9	3.1
10°-20°	802.9	9.0
20°-30°	1218.2	13.6
30°-40°	1473.0	16.5
40°-50°	1537.0	17.2
50°-60°	1405.3	15.7
60°-70°	1095.5	12.2
70°-80°	685.3	7.7
80°-90°	311.3	3.5
90°-100°	104.3	1.2
100°-110°	26.2	0.3
110°-120°	4.1	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°	2301.0	25.7
0°-40°	3774.0	42.2
0°-60°	6716.3	75.1
0°-90°	8808.4	98.5
90°-120°	134.7	1.5
90°-150°	134.7	1.5
90°-180°	135.0	1.5
0°-180°	8943.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2958	2958	2958	2958	2958	
5°	2952	2946	2933	2947	2947	280
15°	2839	2844	2836	2852	2852	801
25°	2631	2633	2636	2658	2662	1212
35°	2329	2339	2349	2373	2383	1458
45°	1959	1977	1993	2012	2022	1510
55°	1529	1547	1576	1599	1609	1366
65°	1051	1069	1106	1150	1168	1040
75°	532	565	647	724	752	567
85°	92	170	292	386	420	116
90°	1	64	172	259	290	4
95°	1	17	89	162	187	1
105°	1	2	15	43	58	1
115°	2	2	3	8	11	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: P580254

CATALOG NUMBER: HVSL12-8-LD4-1HI-35-UNV-O-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2957.8	2957.8	2957.8	2957.8	2957.8
2.5°	2961.3	2957.1	2943.9	2957.1	2956.4
5°	2951.5	2946.0	2932.7	2946.6	2946.6
7.5°	2932.0	2929.9	2918.1	2934.1	2934.1
10°	2909.0	2908.3	2898.5	2916.0	2916.7
12.5°	2876.9	2879.7	2870.6	2887.4	2889.5
15°	2839.3	2844.1	2836.5	2852.5	2851.8
17.5°	2798.1	2800.9	2795.3	2813.5	2812.8
20°	2747.2	2750.7	2746.5	2765.4	2767.5
22.5°	2690.8	2695.6	2694.9	2714.5	2720.0
25°	2630.8	2632.9	2635.7	2658.0	2662.2
27.5°	2564.5	2568.0	2572.9	2593.1	2597.3
30°	2492.0	2497.6	2503.2	2524.1	2529.7
32.5°	2415.3	2420.9	2427.9	2455.1	2457.9
35°	2328.9	2339.3	2349.1	2372.8	2382.6
37.5°	2242.4	2255.7	2264.7	2289.8	2297.5
40°	2151.1	2164.3	2179.0	2205.5	2210.3
42.5°	2055.5	2070.9	2088.3	2112.0	2120.4
45°	1959.3	1976.8	1992.8	2012.3	2022.1
47.5°	1855.4	1872.9	1892.4	1914.7	1921.0
50°	1748.0	1768.3	1789.2	1810.1	1821.3
52.5°	1637.9	1662.3	1686.0	1708.3	1718.8
55°	1529.1	1547.2	1575.8	1598.8	1609.3
57.5°	1416.1	1431.5	1457.3	1494.9	1500.5
60°	1301.1	1315.0	1341.5	1372.2	1384.8
62.5°	1174.2	1193.0	1220.9	1260.0	1271.1
65°	1050.8	1068.9	1105.9	1149.8	1167.9
67.5°	931.5	937.8	985.2	1031.3	1060.5
70°	790.7	814.4	869.5	926.0	948.3
72.5°	669.4	693.1	753.7	820.0	847.9
75°	532.0	564.8	647.1	724.5	751.7
77.5°	411.4	447.6	549.4	627.5	658.9
80°	287.3	343.8	454.6	542.5	576.6
82.5°	180.6	250.3	368.9	460.9	490.9
85°	92.0	170.1	292.2	386.3	420.5
87.5°	24.4	110.2	227.3	317.3	352.1
90°	0.7	63.5	172.2	258.7	290.1
92.5°	0.7	35.6	128.3	205.7	237.8
95°	0.7	16.7	89.3	161.8	186.9
97.5°	0.7	7.0	61.4	122.0	147.1
100°	0.7	3.5	39.0	88.6	110.2
102.5°	1.4	2.1	24.4	63.5	80.9
105°	1.4	2.1	14.6	43.2	57.9



TEST NUMBER: P580254

CATALOG NUMBER: HVSL12-8-LD4-1HI-35-UNV-O-EDD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.1	2.1	2.8	11.9	17.4
115°	2.1	2.1	2.8	7.7	11.2
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°	1.4	2.1	8.4	29.3	39.7
110°	2.1	2.1	4.9	18.1	26.5



(END OF REPORT)