

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: P580762

Luminaire Tested: **HVSL8-4-LD4-2HI-50-UNV-O-EDD**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580762
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-50-UNV-O-EDD
Description: 4 FOOT, 8INCH WIDE, HVSL LED LUMINAIRE, WITH 5000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

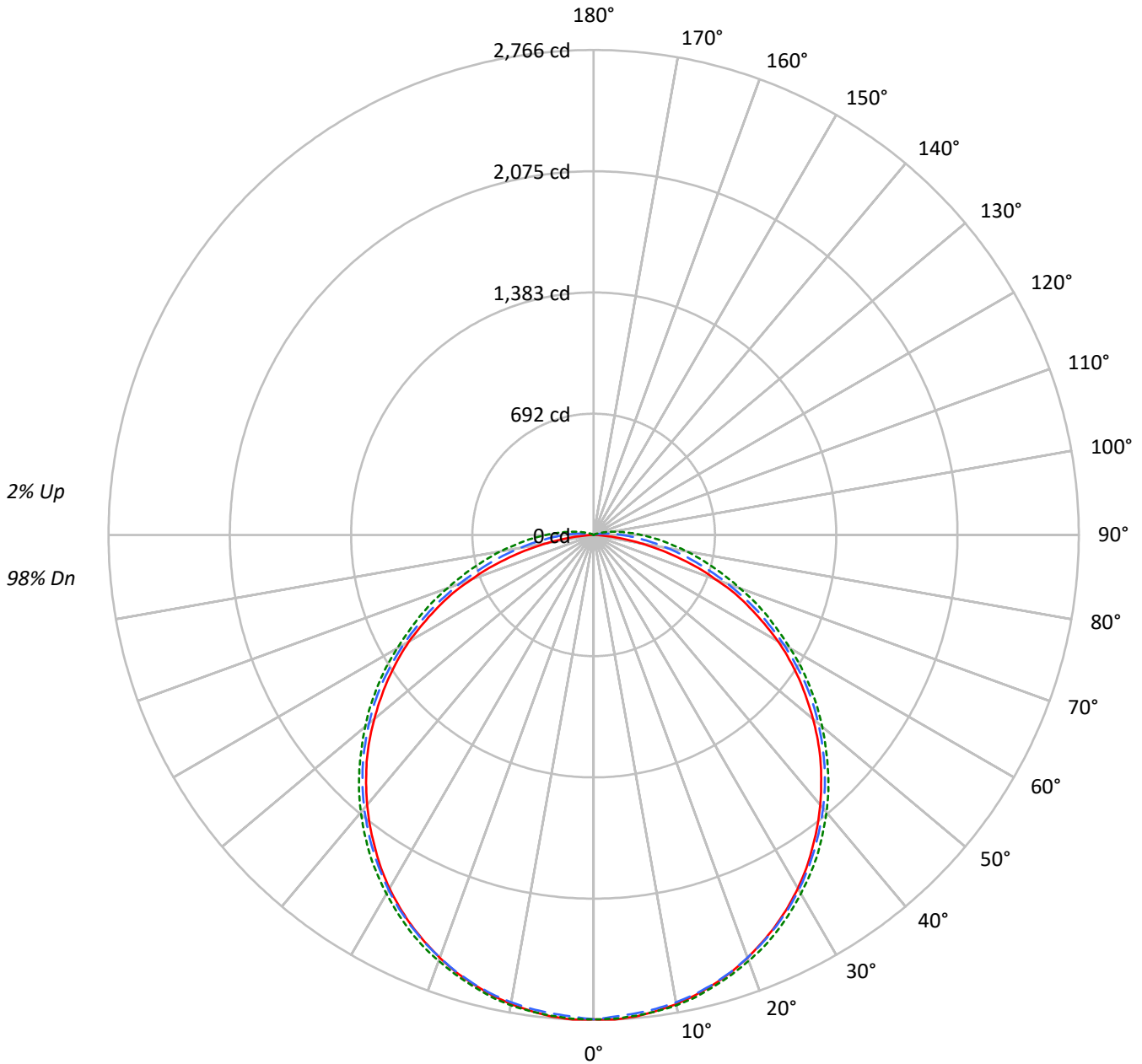
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8354.0 lumens
Efficiency: N/A
Efficacy: 94.1 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

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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°	11153	11153	11153
5°	11131	10904	10914
10°	11057	10708	10696
15°	10961	10493	10433
20°	10859	10251	10178
25°	10736	10003	9919
30°	10595	9739	9625
35°	10416	9448	9333
40°	10230	9143	8993
45°	10030	8809	8626
50°	9769	8424	8231
55°	9487	8002	7795
60°	9151	7454	7287
65°	8606	6840	6783
70°	7821	6118	6197
75°	6708	5326	5664
80°	5046	4550	5178
85°	2698	3764	4715



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	261.5	3.1
10°-20°	750.0	9.0
20°-30°	1138.0	13.6
30°-40°	1376.0	16.5
40°-50°	1435.8	17.2
50°-60°	1312.7	15.7
60°-70°	1023.3	12.2
70°-80°	640.1	7.7
80°-90°	290.7	3.5
90°-100°	97.4	1.2
100°-110°	24.5	0.3
110°-120°	3.9	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°	2149.5	25.7
0°-40°	3525.5	42.2
0°-60°	6274.0	75.1
0°-90°	8228.2	98.5
90°-120°	125.8	1.5
90°-150°	125.8	1.5
90°-180°	126.0	1.5
0°-180°	8354.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2763	2763	2763	2763	2763	
5°	2757	2752	2740	2753	2753	262
15°	2652	2657	2650	2665	2664	749
25°	2458	2460	2462	2483	2487	1132
35°	2176	2185	2194	2216	2226	1362
45°	1830	1847	1862	1880	1889	1410
55°	1428	1445	1472	1494	1503	1276
65°	982	998	1033	1074	1091	971
75°	497	528	604	677	702	530
85°	86	159	273	361	393	109
90°	1	59	161	242	271	3
95°	1	16	83	151	175	1
105°	1	2	14	40	54	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: P580762

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2763.0	2763.0	2763.0	2763.0	2763.0
2.5°	2766.3	2762.3	2750.0	2762.3	2761.7
5°	2757.1	2751.9	2739.6	2752.6	2752.6
7.5°	2738.9	2736.9	2725.9	2740.9	2740.9
10°	2717.4	2716.8	2707.6	2723.9	2724.6
12.5°	2687.4	2690.0	2681.6	2697.2	2699.2
15°	2652.3	2656.8	2649.7	2664.6	2664.0
17.5°	2613.8	2616.4	2611.2	2628.2	2627.5
20°	2566.3	2569.5	2565.6	2583.2	2585.2
22.5°	2513.5	2518.1	2517.4	2535.7	2540.9
25°	2457.5	2459.5	2462.1	2482.9	2486.8
27.5°	2395.6	2398.9	2403.5	2422.3	2426.3
30°	2327.9	2333.1	2338.3	2357.9	2363.1
32.5°	2256.3	2261.5	2268.0	2293.4	2296.0
35°	2175.5	2185.3	2194.4	2216.5	2225.6
37.5°	2094.7	2107.1	2115.6	2139.0	2146.2
40°	2009.4	2021.8	2035.4	2060.2	2064.8
42.5°	1920.2	1934.5	1950.8	1972.9	1980.7
45°	1830.3	1846.6	1861.5	1879.8	1888.9
47.5°	1733.2	1749.5	1767.7	1788.6	1794.5
50°	1632.9	1651.8	1671.3	1690.9	1701.3
52.5°	1530.0	1552.8	1574.9	1595.8	1605.6
55°	1428.4	1445.3	1472.0	1493.5	1503.3
57.5°	1322.9	1337.2	1361.3	1396.5	1401.7
60°	1215.4	1228.4	1253.2	1281.8	1293.6
62.5°	1096.9	1114.4	1140.5	1177.0	1187.4
65°	981.6	998.5	1033.0	1074.1	1091.0
67.5°	870.2	876.1	920.3	963.3	990.7
70°	738.6	760.8	812.2	865.0	885.8
72.5°	625.3	647.4	704.1	766.0	792.0
75°	497.0	527.6	604.4	676.7	702.1
77.5°	384.3	418.2	513.3	586.2	615.5
80°	268.4	321.1	424.7	506.7	538.7
82.5°	168.7	233.8	344.6	430.5	458.5
85°	86.0	158.9	272.9	360.8	392.8
87.5°	22.8	102.9	212.3	296.4	328.9
90°	0.7	59.3	160.9	241.6	271.0
92.5°	0.7	33.2	119.8	192.1	222.1
95°	0.7	15.6	83.4	151.1	174.6
97.5°	0.7	6.5	57.3	114.0	137.4
100°	0.7	3.3	36.5	82.7	102.9
102.5°	1.3	2.0	22.8	59.3	75.6
105°	1.3	2.0	13.7	40.4	54.1



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CATALOG NUMBER: HVSL8-4-LD4-2HI-50-UNV-O-EDD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.0	2.0	2.6	11.1	16.3
115°	2.0	2.0	2.6	7.2	10.4
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	2.0	7.8	27.4	37.1
110°	2.0	2.0	4.6	16.9	24.8



(END OF REPORT)