

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: P580758

Luminaire Tested: **HVSL8-4-LD4-2HI-35-UNV-O-EDD**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580758
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-35-UNV-O-EDD
Description: 4 FOOT, 8INCH WIDE, HVSL LED LUMINAIRE, WITH 3500K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

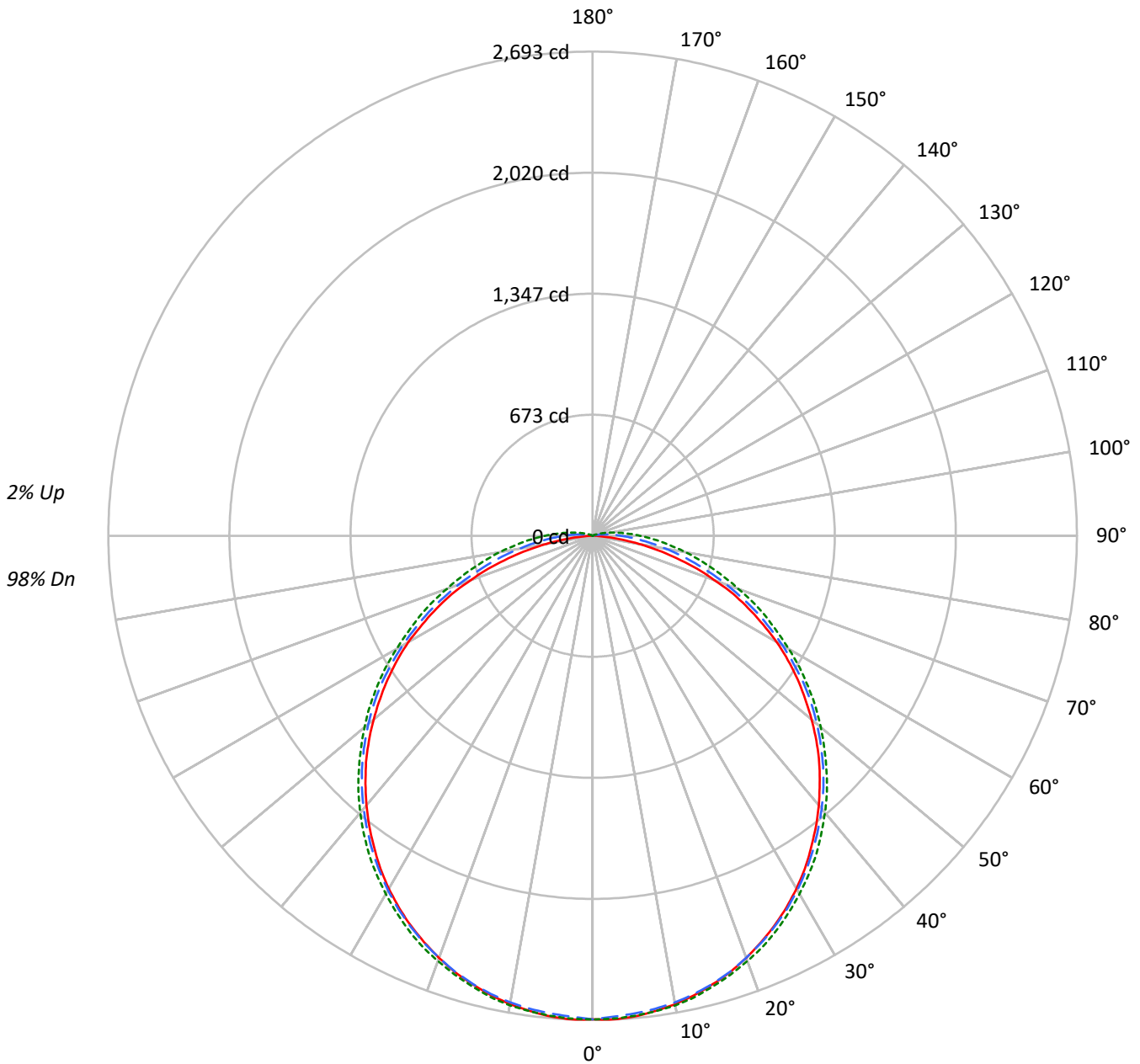
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8132.9 lumens
Efficiency: N/A
Efficacy: 91.6 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 (A_{in}): 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				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°	10858	10858	10858
5°	10837	10615	10626
10°	10764	10425	10413
15°	10671	10215	10157
20°	10572	9980	9909
25°	10452	9738	9657
30°	10315	9481	9370
35°	10140	9198	9086
40°	9959	8901	8755
45°	9765	8576	8397
50°	9510	8201	8013
55°	9236	7790	7589
60°	8910	7256	7094
65°	8378	6660	6603
70°	7615	5956	6033
75°	6530	5186	5515
80°	4913	4429	5041
85°	2626	3665	4590



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.5	3.1
10°-20°	730.2	9.0
20°-30°	1107.9	13.6
30°-40°	1339.6	16.5
40°-50°	1397.8	17.2
50°-60°	1278.0	15.7
60°-70°	996.3	12.2
70°-80°	623.2	7.7
80°-90°	283.0	3.5
90°-100°	94.9	1.2
100°-110°	23.8	0.3
110°-120°	3.7	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°	2092.6	25.7
0°-40°	3432.2	42.2
0°-60°	6108.0	75.1
0°-90°	8010.5	98.5
90°-120°	122.4	1.5
90°-150°	122.4	1.5
90°-180°	122.0	1.5
0°-180°	8132.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2690	2690	2690	2690	2690	
5°	2684	2679	2667	2680	2680	255
15°	2582	2586	2580	2594	2594	729
25°	2392	2394	2397	2417	2421	1102
35°	2118	2127	2136	2158	2167	1326
45°	1782	1798	1812	1830	1839	1373
55°	1391	1407	1433	1454	1464	1242
65°	956	972	1006	1046	1062	946
75°	484	514	588	659	684	516
85°	84	155	266	351	382	106
90°	1	58	157	235	264	3
95°	1	15	81	147	170	0
105°	1	2	13	39	53	1
115°	2	2	2	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: P580758

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2689.9	2689.9	2689.9	2689.9	2689.9
2.5°	2693.1	2689.3	2677.2	2689.3	2688.6
5°	2684.2	2679.1	2667.1	2679.8	2679.8
7.5°	2666.4	2664.5	2653.8	2668.3	2668.3
10°	2645.5	2644.9	2636.0	2651.9	2652.5
12.5°	2616.3	2618.9	2610.6	2625.9	2627.8
15°	2582.1	2586.5	2579.6	2594.2	2593.5
17.5°	2544.7	2547.2	2542.2	2558.6	2558.0
20°	2498.4	2501.6	2497.8	2514.9	2516.8
22.5°	2447.0	2451.5	2450.8	2468.6	2473.7
25°	2392.5	2394.4	2396.9	2417.2	2421.0
27.5°	2332.3	2335.4	2339.9	2358.3	2362.1
30°	2266.3	2271.4	2276.5	2295.5	2300.6
32.5°	2196.6	2201.6	2208.0	2232.7	2235.2
35°	2117.9	2127.4	2136.3	2157.9	2166.8
37.5°	2039.3	2051.4	2059.6	2082.4	2089.4
40°	1956.2	1968.3	1981.6	2005.7	2010.1
42.5°	1869.4	1883.3	1899.2	1920.7	1928.3
45°	1781.9	1797.7	1812.3	1830.0	1838.9
47.5°	1687.4	1703.2	1721.0	1741.3	1747.0
50°	1589.7	1608.1	1627.1	1646.2	1656.3
52.5°	1489.5	1511.7	1533.3	1553.6	1563.1
55°	1390.6	1407.1	1433.1	1454.0	1463.5
57.5°	1287.9	1301.8	1325.3	1359.5	1364.6
60°	1183.3	1195.9	1220.0	1247.9	1259.3
62.5°	1067.8	1085.0	1110.3	1145.8	1156.0
65°	955.6	972.1	1005.7	1045.7	1062.1
67.5°	847.2	852.9	896.0	937.9	964.5
70°	719.1	740.6	790.7	842.1	862.4
72.5°	608.7	630.3	685.5	745.7	771.1
75°	483.8	513.6	588.5	658.8	683.6
77.5°	374.1	407.1	499.7	570.7	599.2
80°	261.3	312.6	413.4	493.3	524.4
82.5°	164.2	227.6	335.4	419.1	446.4
85°	83.7	154.7	265.7	351.3	382.4
87.5°	22.2	100.2	206.7	288.5	320.2
90°	0.6	57.7	156.6	235.3	263.8
92.5°	0.6	32.3	116.7	187.1	216.2
95°	0.6	15.2	81.2	147.1	169.9
97.5°	0.6	6.3	55.8	111.0	133.8
100°	0.6	3.2	35.5	80.5	100.2
102.5°	1.3	1.9	22.2	57.7	73.6
105°	1.3	1.9	13.3	39.3	52.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.9	1.9	2.5	10.8	15.9
115°	1.9	1.9	2.5	7.0	10.1
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	7.6	26.6	36.1
110°	1.9	1.9	4.4	16.5	24.1



(END OF REPORT)