

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: P580546

Luminaire Tested: **HVSL4-3-LD4-2HI-50-UNV-O-EDD**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580546
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: HVSL4-3-LD4-2HI-50-UNV-O-EDD
Description: 3 FOOT, 4INCH WIDE, HVSL LED LUMINAIRE, WITH 5000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

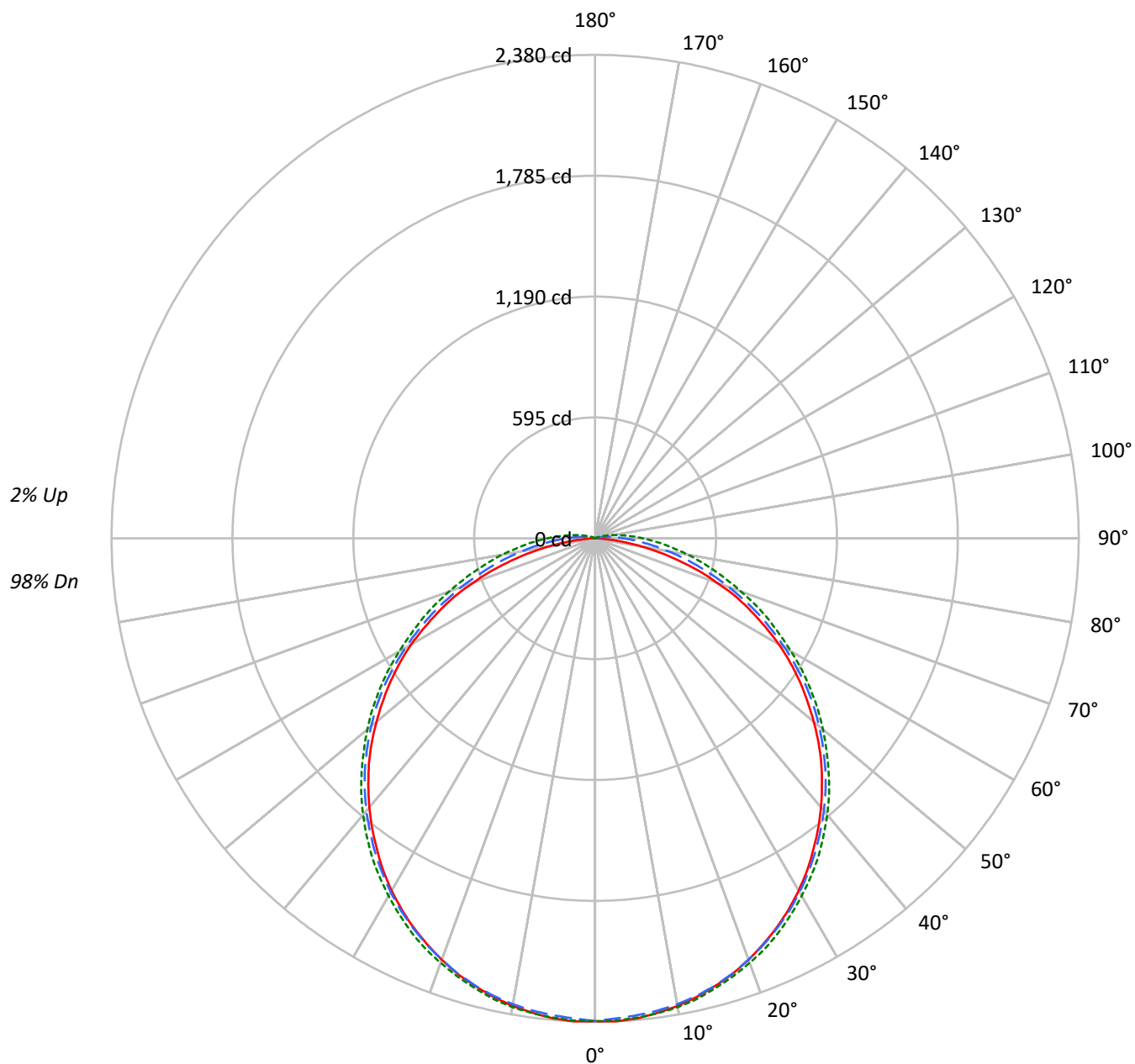
Lumens per Lamp: N/A
Luminaire Lumens: 7188.0 lumens
Efficiency: N/A
Efficacy: 111.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 3' x H: 0.17')
CIE Type: Direct

Input Watts (W): 64.7
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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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°	25590	25590	25590
5°	25509	24623	24518
10°	25307	23814	23547
15°	25058	22985	22525
20°	24792	22123	21556
25°	24479	21264	20607
30°	24122	20383	19610
35°	23675	19457	18637
40°	23211	18508	17584
45°	22710	17504	16493
50°	22066	16402	15360
55°	21368	15226	14161
60°	20537	13813	12839
65°	19221	12285	11536
70°	17351	10577	10104
75°	14729	8770	8765
80°	10883	7016	7489
85°	5589	5281	6214



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.0	3.1
10°-20°	645.3	9.0
20°-30°	979.2	13.6
30°-40°	1184.0	16.5
40°-50°	1235.4	17.2
50°-60°	1129.5	15.7
60°-70°	880.5	12.2
70°-80°	550.8	7.7
80°-90°	250.2	3.5
90°-100°	83.9	1.2
100°-110°	21.0	0.3
110°-120°	3.3	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°	1849.4	25.7
0°-40°	3033.4	42.2
0°-60°	5398.3	75.1
0°-90°	7079.8	98.5
90°-120°	108.2	1.5
90°-150°	108.2	1.5
90°-180°	108.0	1.5
0°-180°	7188.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2377	2377	2377	2377	2377	
5°	2372	2368	2357	2368	2368	225
15°	2282	2286	2280	2293	2292	644
25°	2114	2116	2118	2136	2140	974
35°	1872	1880	1888	1907	1915	1172
45°	1575	1589	1602	1617	1625	1213
55°	1229	1244	1267	1285	1294	1098
65°	845	859	889	924	939	836
75°	428	454	520	582	604	456
85°	74	137	235	310	338	94
90°	1	51	138	208	233	3
95°	1	14	72	130	150	0
105°	1	2	12	35	46	1
115°	2	2	2	6	9	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	



TEST NUMBER: P580546

CATALOG NUMBER: HVSL4-3-LD4-2HI-50-UNV-O-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2377.4	2377.4	2377.4	2377.4	2377.4
2.5°	2380.2	2376.8	2366.1	2376.8	2376.2
5°	2372.3	2367.8	2357.2	2368.4	2368.4
7.5°	2356.6	2354.9	2345.4	2358.3	2358.3
10°	2338.1	2337.6	2329.7	2343.7	2344.3
12.5°	2312.3	2314.6	2307.3	2320.8	2322.4
15°	2282.1	2286.0	2279.8	2292.7	2292.2
17.5°	2249.0	2251.3	2246.8	2261.3	2260.8
20°	2208.1	2210.9	2207.5	2222.7	2224.4
22.5°	2162.7	2166.6	2166.1	2181.8	2186.2
25°	2114.5	2116.2	2118.4	2136.4	2139.7
27.5°	2061.3	2064.1	2068.0	2084.2	2087.6
30°	2003.0	2007.5	2012.0	2028.8	2033.3
32.5°	1941.3	1945.8	1951.4	1973.3	1975.5
35°	1871.8	1880.3	1888.1	1907.2	1915.0
37.5°	1802.4	1813.0	1820.3	1840.5	1846.6
40°	1728.9	1739.6	1751.4	1772.6	1776.6
42.5°	1652.2	1664.5	1678.5	1697.6	1704.3
45°	1574.8	1588.8	1601.7	1617.4	1625.3
47.5°	1491.3	1505.3	1521.0	1538.9	1544.0
50°	1405.0	1421.3	1438.1	1454.9	1463.9
52.5°	1316.5	1336.1	1355.1	1373.1	1381.5
55°	1229.0	1243.6	1266.6	1285.1	1293.5
57.5°	1138.2	1150.6	1171.3	1201.6	1206.1
60°	1045.8	1057.0	1078.3	1102.9	1113.0
62.5°	943.8	958.9	981.3	1012.7	1021.7
65°	844.6	859.1	888.8	924.2	938.7
67.5°	748.7	753.8	791.9	828.9	852.4
70°	635.5	654.6	698.9	744.3	762.2
72.5°	538.0	557.1	605.8	659.1	681.5
75°	427.6	454.0	520.1	582.3	604.1
77.5°	330.7	359.8	441.6	504.4	529.6
80°	230.9	276.3	365.4	436.0	463.5
82.5°	145.2	201.2	296.5	370.4	394.5
85°	74.0	136.7	234.8	310.5	337.9
87.5°	19.6	88.5	182.7	255.0	283.0
90°	0.6	51.0	138.4	207.9	233.1
92.5°	0.6	28.6	103.1	165.3	191.1
95°	0.6	13.5	71.7	130.0	150.2
97.5°	0.6	5.6	49.3	98.1	118.3
100°	0.6	2.8	31.4	71.2	88.5
102.5°	1.1	1.7	19.6	51.0	65.0
105°	1.1	1.7	11.8	34.7	46.5



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CATALOG NUMBER: HVSL4-3-LD4-2HI-50-UNV-O-EDD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.7	1.7	2.2	9.5	14.0
115°	1.7	1.7	2.2	6.2	9.0
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°	1.1	1.7	6.7	23.5	31.9
110°	1.7	1.7	3.9	14.6	21.3



(END OF REPORT)