

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: P580540

Luminaire Tested: **HVSL4-3-LD4-2HI-30-UNV-O-EDD**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580540
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-30-UNV-O-EDD
Description: 3 FOOT, 4INCH WIDE, HVSL LED LUMINAIRE, WITH 3000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

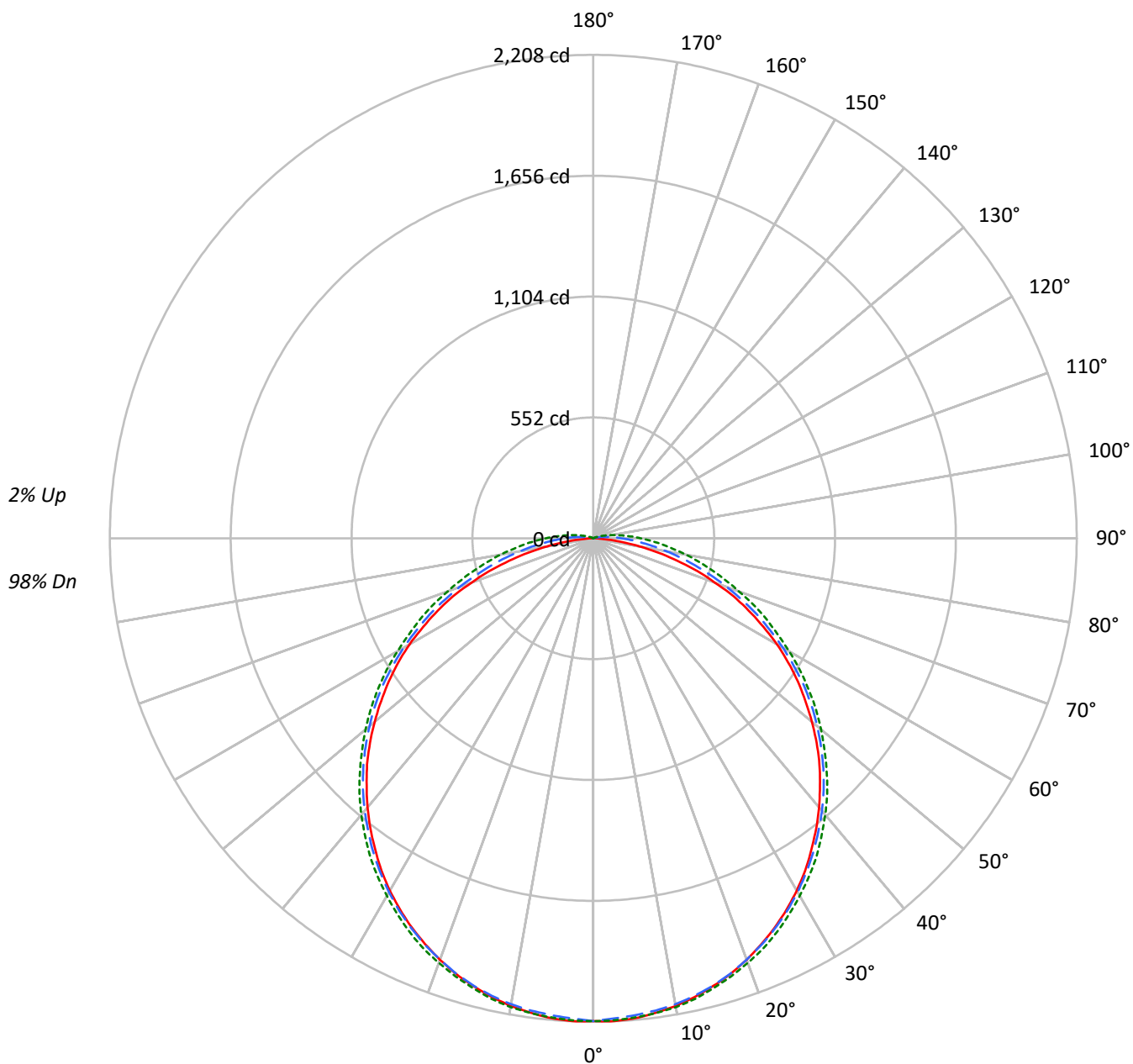
Lumens per Lamp: N/A
Luminaire Lumens: 6668.0 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 3' x H: 0.17')
CIE Type: Direct

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

TEST NUMBER: P580540

CATALOG NUMBER: HVSL4-3-LD4-2HI-30-UNV-O-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P580540

CATALOG NUMBER: HVSL4-3-LD4-2HI-30-UNV-O-EDD

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°	23739	23739	23739
5°	23664	22842	22745
10°	23477	22091	21843
15°	23245	21323	20895
20°	22999	20522	19996
25°	22708	19726	19116
30°	22377	18908	18191
35°	21962	18049	17289
40°	21533	17169	16312
45°	21068	16238	15300
50°	20471	15214	14249
55°	19822	14125	13136
60°	19051	12814	11911
65°	17831	11397	10702
70°	16098	9811	9372
75°	13664	8136	8131
80°	10096	6509	6946
85°	5181	4899	5765



TEST NUMBER: P580540

CATALOG NUMBER: HVSL4-3-LD4-2HI-30-UNV-O-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.7	3.1
10°-20°	598.6	9.0
20°-30°	908.3	13.6
30°-40°	1098.3	16.5
40°-50°	1146.0	17.2
50°-60°	1047.8	15.7
60°-70°	816.8	12.2
70°-80°	511.0	7.7
80°-90°	232.1	3.5
90°-100°	77.8	1.2
100°-110°	19.5	0.3
110°-120°	3.1	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°	1715.7	25.7
0°-40°	2814.0	42.2
0°-60°	5007.8	75.1
0°-90°	6567.6	98.5
90°-120°	100.4	1.5
90°-150°	100.4	1.5
90°-180°	100.0	1.5
0°-180°	6668.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2205	2205	2205	2205	2205	
5°	2201	2196	2187	2197	2197	209
15°	2117	2121	2115	2127	2126	598
25°	1962	1963	1965	1982	1985	904
35°	1736	1744	1752	1769	1776	1087
45°	1461	1474	1486	1500	1508	1126
55°	1140	1154	1175	1192	1200	1019
65°	784	797	824	857	871	775
75°	397	421	482	540	560	423
85°	69	127	218	288	314	87
90°	0	47	128	193	216	3
95°	0	12	66	121	139	0
105°	1	2	11	32	43	1
115°	2	2	2	6	8	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: P580540

CATALOG NUMBER: HVSL4-3-LD4-2HI-30-UNV-O-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2205.4	2205.4	2205.4	2205.4	2205.4
2.5°	2208.0	2204.9	2195.0	2204.9	2204.3
5°	2200.7	2196.5	2186.7	2197.1	2197.1
7.5°	2186.1	2184.6	2175.7	2187.7	2187.7
10°	2169.0	2168.5	2161.2	2174.2	2174.7
12.5°	2145.1	2147.1	2140.4	2152.9	2154.4
15°	2117.0	2120.6	2114.9	2126.9	2126.3
17.5°	2086.3	2088.4	2084.2	2097.8	2097.2
20°	2048.4	2051.0	2047.8	2061.9	2063.4
22.5°	2006.3	2009.9	2009.4	2023.9	2028.1
25°	1961.5	1963.1	1965.2	1981.8	1984.9
27.5°	1912.2	1914.8	1918.4	1933.5	1936.6
30°	1858.1	1862.2	1866.4	1882.0	1886.2
32.5°	1800.9	1805.1	1810.3	1830.5	1832.6
35°	1736.4	1744.2	1751.5	1769.2	1776.5
37.5°	1672.0	1681.8	1688.6	1707.3	1713.0
40°	1603.9	1613.7	1624.7	1644.4	1648.0
42.5°	1532.6	1544.1	1557.1	1574.7	1581.0
45°	1460.9	1473.9	1485.8	1500.4	1507.7
47.5°	1383.4	1396.4	1411.0	1427.6	1432.3
50°	1303.4	1318.4	1334.0	1349.6	1358.0
52.5°	1221.2	1239.4	1257.1	1273.7	1281.5
55°	1140.1	1153.6	1175.0	1192.1	1199.9
57.5°	1055.9	1067.3	1086.6	1114.6	1118.8
60°	970.1	980.5	1000.3	1023.1	1032.5
62.5°	875.5	889.5	910.3	939.4	947.8
65°	783.5	797.0	824.5	857.3	870.8
67.5°	694.6	699.3	734.6	768.9	790.8
70°	589.6	607.2	648.3	690.4	707.0
72.5°	499.1	516.8	562.0	611.4	632.2
75°	396.7	421.1	482.5	540.2	560.4
77.5°	306.7	333.8	409.7	467.9	491.3
80°	214.2	256.3	339.0	404.5	429.9
82.5°	134.7	186.6	275.0	343.6	366.0
85°	68.6	126.9	217.8	288.0	313.5
87.5°	18.2	82.1	169.5	236.5	262.5
90°	0.5	47.3	128.4	192.9	216.3
92.5°	0.5	26.5	95.7	153.4	177.3
95°	0.5	12.5	66.5	120.6	139.3
97.5°	0.5	5.2	45.8	91.0	109.7
100°	0.5	2.6	29.1	66.0	82.1
102.5°	1.0	1.6	18.2	47.3	60.3
105°	1.0	1.6	10.9	32.2	43.2



TEST NUMBER: P580540

CATALOG NUMBER: HVSL4-3-LD4-2HI-30-UNV-O-EDD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.6	1.6	2.1	8.8	13.0
115°	1.6	1.6	2.1	5.7	8.3
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°	1.0	1.6	6.2	21.8	29.6
110°	1.6	1.6	3.6	13.5	19.8



(END OF REPORT)