

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: P580539

Luminaire Tested: **HVSL4-3-LD4-2HI-30-UNV-O-EDD-90**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580539
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-90
Description: 3 FOOT, 4INCH WIDE, HVSL LED LUMINAIRE, WITH 3000K, 90 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

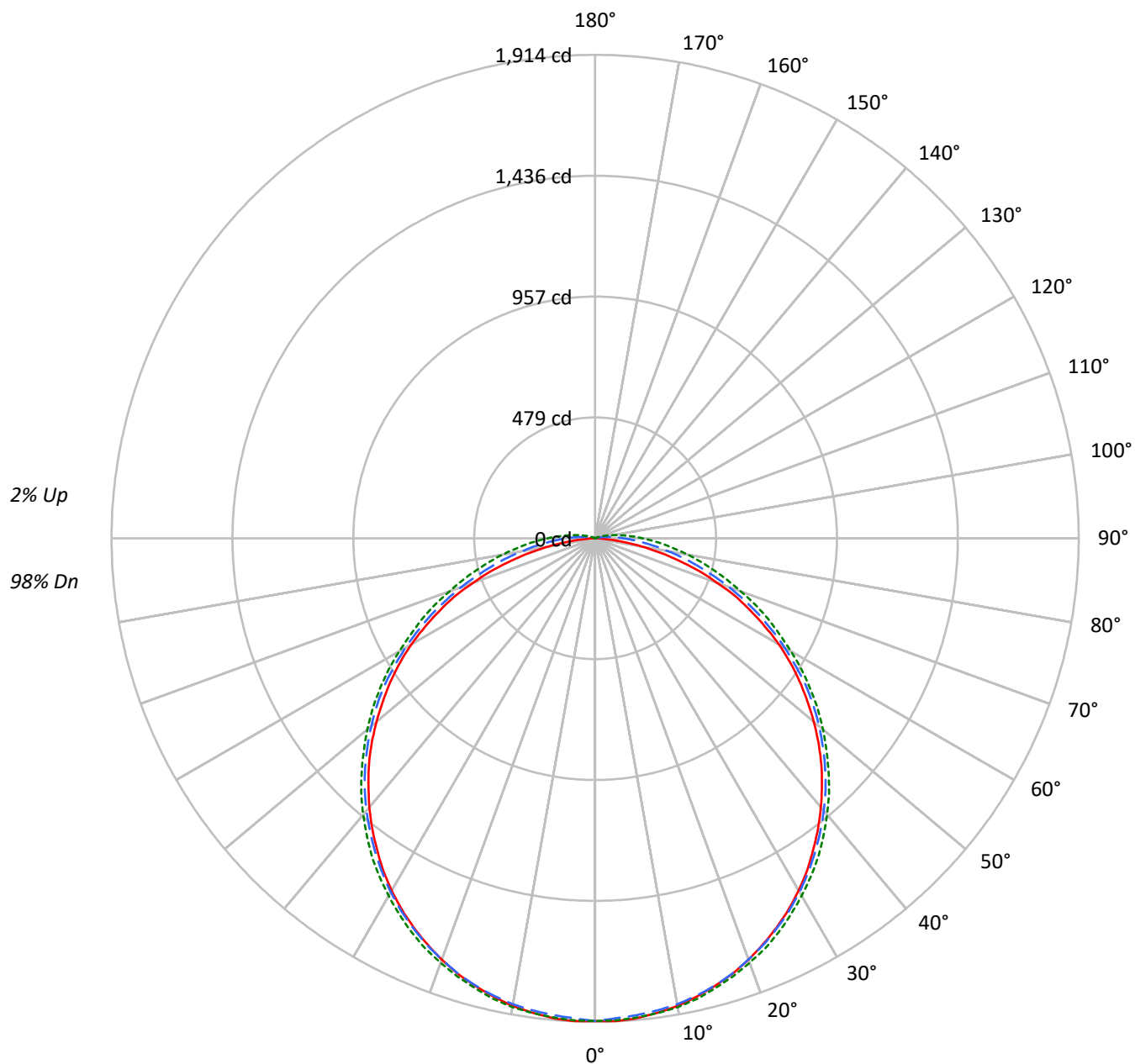
Lumens per Lamp: N/A
Luminaire Lumens: 5779.1 lumens
Efficiency: N/A
Efficacy: 89.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 3' x H: 0.17')
CIE Type: Direct

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: P580539

CATALOG NUMBER: HVSL4-3-LD4-2HI-30-UNV-O-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P580539

CATALOG NUMBER: HVSL4-3-LD4-2HI-30-UNV-O-EDD-90

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°	20573	20573	20573
5°	20509	19796	19711
10°	20347	19145	18931
15°	20145	18480	18110
20°	19932	17786	17330
25°	19680	17096	16568
30°	19394	16388	15766
35°	19034	15643	14984
40°	18661	14880	14137
45°	18259	14073	13260
50°	17741	13187	12348
55°	17180	12241	11384
60°	16511	11105	10322
65°	15452	9878	9275
70°	13952	8504	8124
75°	11842	7050	7047
80°	8748	5641	6021
85°	4494	4246	4996



TEST NUMBER: P580539

CATALOG NUMBER: HVSL4-3-LD4-2HI-30-UNV-O-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.9	3.1
10°-20°	518.8	9.0
20°-30°	787.2	13.6
30°-40°	951.9	16.5
40°-50°	993.2	17.2
50°-60°	908.1	15.7
60°-70°	707.9	12.2
70°-80°	442.8	7.7
80°-90°	201.1	3.5
90°-100°	67.4	1.2
100°-110°	16.9	0.3
110°-120°	2.7	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°	1486.9	25.7
0°-40°	2438.8	42.2
0°-60°	4340.1	75.1
0°-90°	5692.0	98.5
90°-120°	87.0	1.5
90°-150°	87.0	1.5
90°-180°	87.0	1.5
0°-180°	5779.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1911	1911	1911	1911	1911	
5°	1907	1904	1895	1904	1904	181
15°	1835	1838	1833	1843	1843	518
25°	1700	1701	1703	1718	1720	783
35°	1505	1512	1518	1533	1540	942
45°	1266	1277	1288	1300	1307	976
55°	988	1000	1018	1033	1040	883
65°	679	691	715	743	755	672
75°	344	365	418	468	486	366
85°	60	110	189	250	272	75
90°	0	41	111	167	187	2
95°	0	11	58	104	121	0
105°	1	1	10	28	37	1
115°	1	1	2	5	7	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: P580539

CATALOG NUMBER: HVSL4-3-LD4-2HI-30-UNV-O-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1911.3	1911.3	1911.3	1911.3	1911.3
2.5°	1913.6	1910.9	1902.3	1910.9	1910.4
5°	1907.3	1903.7	1895.1	1904.1	1904.1
7.5°	1894.7	1893.3	1885.7	1896.0	1896.0
10°	1879.8	1879.4	1873.0	1884.3	1884.8
12.5°	1859.1	1860.9	1855.0	1865.8	1867.2
15°	1834.7	1837.9	1832.9	1843.3	1842.9
17.5°	1808.2	1810.0	1806.4	1818.1	1817.6
20°	1775.3	1777.5	1774.8	1787.0	1788.3
22.5°	1738.8	1741.9	1741.5	1754.1	1757.7
25°	1700.0	1701.4	1703.2	1717.6	1720.3
27.5°	1657.2	1659.5	1662.6	1675.7	1678.4
30°	1610.4	1614.0	1617.6	1631.1	1634.7
32.5°	1560.8	1564.4	1568.9	1586.5	1588.3
35°	1504.9	1511.7	1518.0	1533.3	1539.6
37.5°	1449.1	1457.6	1463.5	1479.7	1484.6
40°	1390.0	1398.6	1408.1	1425.2	1428.3
42.5°	1328.3	1338.2	1349.5	1364.8	1370.2
45°	1266.1	1277.4	1287.7	1300.4	1306.7
47.5°	1199.0	1210.2	1222.9	1237.3	1241.3
50°	1129.6	1142.7	1156.2	1169.7	1176.9
52.5°	1058.4	1074.2	1089.5	1103.9	1110.7
55°	988.1	999.8	1018.3	1033.2	1039.9
57.5°	915.1	925.0	941.7	966.0	969.6
60°	840.8	849.8	866.9	886.7	894.8
62.5°	758.8	770.9	789.0	814.2	821.4
65°	679.0	690.7	714.6	743.0	754.7
67.5°	602.0	606.0	636.7	666.4	685.3
70°	511.0	526.3	561.9	598.4	612.8
72.5°	432.6	447.9	487.1	529.9	547.9
75°	343.8	365.0	418.1	468.1	485.7
77.5°	265.8	289.3	355.1	405.5	425.8
80°	185.6	222.1	293.8	350.5	372.6
82.5°	116.7	161.8	238.4	297.8	317.2
85°	59.5	109.9	188.8	249.6	271.7
87.5°	15.8	71.2	146.9	205.0	227.5
90°	0.5	41.0	111.3	167.2	187.4
92.5°	0.5	23.0	82.9	132.9	153.6
95°	0.5	10.8	57.7	104.5	120.8
97.5°	0.5	4.5	39.7	78.9	95.1
100°	0.5	2.3	25.2	57.2	71.2
102.5°	0.9	1.4	15.8	41.0	52.3
105°	0.9	1.4	9.5	27.9	37.4



TEST NUMBER: P580539

CATALOG NUMBER: HVSL4-3-LD4-2HI-30-UNV-O-EDD-90

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.4	1.4	1.8	7.7	11.3
115°	1.4	1.4	1.8	5.0	7.2
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°	0.9	1.4	5.4	18.9	25.7
110°	1.4	1.4	3.2	11.7	17.1



(END OF REPORT)