

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: P580541

Luminaire Tested: **HVSL4-3-LD4-2HI-35-UNV-O-EDD-90**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580541
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-35-UNV-O-EDD-90
Description: 3 FOOT, 4INCH WIDE, HVSL LED LUMINAIRE, WITH 3500K, 90 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

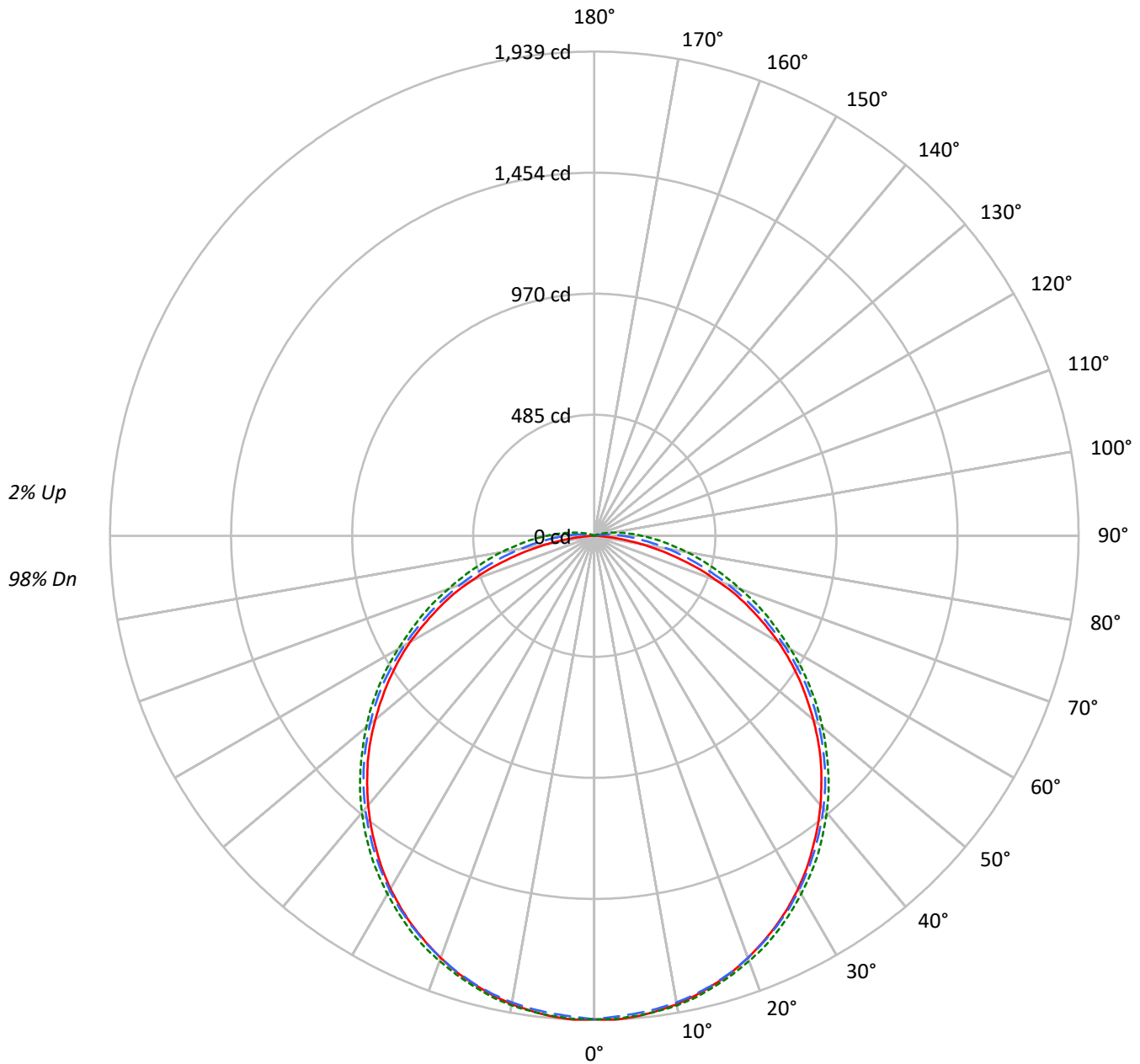
Lumens per Lamp: N/A
Luminaire Lumens: 5856.0 lumens
Efficiency: N/A
Efficacy: 90.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 3' x H: 0.17')
CIE Type: Direct

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°	20848	20848	20848
5°	20782	20060	19974
10°	20618	19401	19184
15°	20414	18727	18351
20°	20197	18024	17562
25°	19943	17324	16788
30°	19651	16606	15976
35°	19288	15851	15183
40°	18910	15077	14326
45°	18502	14261	13436
50°	17977	13362	12513
55°	17409	12404	11536
60°	16731	11254	10461
65°	15660	10009	9399
70°	14138	8617	8231
75°	12001	7145	7141
80°	8866	5716	6101
85°	4554	4303	5062



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.3	3.1
10°-20°	525.7	9.0
20°-30°	797.7	13.6
30°-40°	964.6	16.5
40°-50°	1006.5	17.2
50°-60°	920.2	15.7
60°-70°	717.3	12.2
70°-80°	448.7	7.7
80°-90°	203.8	3.5
90°-100°	68.3	1.2
100°-110°	17.2	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°	1506.7	25.7
0°-40°	2471.3	42.2
0°-60°	4398.0	75.1
0°-90°	5767.8	98.5
90°-120°	88.2	1.5
90°-150°	88.2	1.5
90°-180°	88.0	1.5
0°-180°	5856.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1937	1937	1937	1937	1937	
5°	1933	1929	1920	1930	1930	184
15°	1859	1862	1857	1868	1867	525
25°	1723	1724	1726	1740	1743	794
35°	1525	1532	1538	1554	1560	954
45°	1283	1294	1305	1318	1324	989
55°	1001	1013	1032	1047	1054	895
65°	688	700	724	753	765	681
75°	348	370	424	474	492	371
85°	60	111	191	253	275	76
90°	0	42	113	169	190	2
95°	0	11	58	106	122	0
105°	1	1	10	28	38	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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1936.8	1936.8	1936.8	1936.8	1936.8
2.5°	1939.1	1936.4	1927.7	1936.4	1935.9
5°	1932.7	1929.0	1920.4	1929.5	1929.5
7.5°	1919.9	1918.5	1910.8	1921.3	1921.3
10°	1904.9	1904.4	1898.0	1909.4	1909.9
12.5°	1883.8	1885.7	1879.7	1890.7	1892.1
15°	1859.2	1862.4	1857.4	1867.9	1867.4
17.5°	1832.3	1834.1	1830.4	1842.3	1841.8
20°	1798.9	1801.2	1798.5	1810.8	1812.2
22.5°	1761.9	1765.1	1764.7	1777.5	1781.1
25°	1722.7	1724.0	1725.9	1740.5	1743.2
27.5°	1679.3	1681.6	1684.8	1698.0	1700.8
30°	1631.8	1635.5	1639.1	1652.8	1656.5
32.5°	1581.6	1585.2	1589.8	1607.6	1609.4
35°	1525.0	1531.8	1538.2	1553.7	1560.1
37.5°	1468.4	1477.0	1483.0	1499.4	1504.4
40°	1408.5	1417.2	1426.8	1444.2	1447.4
42.5°	1346.0	1356.0	1367.5	1383.0	1388.5
45°	1283.0	1294.4	1304.9	1317.7	1324.1
47.5°	1215.0	1226.4	1239.2	1253.8	1257.9
50°	1144.6	1157.9	1171.6	1185.3	1192.6
52.5°	1072.5	1088.5	1104.0	1118.6	1125.5
55°	1001.3	1013.2	1031.9	1046.9	1053.8
57.5°	927.3	937.4	954.3	978.9	982.6
60°	852.0	861.1	878.5	898.5	906.8
62.5°	768.9	781.2	799.5	825.0	832.3
65°	688.1	699.9	724.1	752.9	764.8
67.5°	610.0	614.1	645.1	675.3	694.5
70°	517.8	533.3	569.4	606.3	620.9
72.5°	438.3	453.8	493.6	536.9	555.2
75°	348.4	369.8	423.7	474.4	492.2
77.5°	269.4	293.1	359.8	410.9	431.5
80°	188.1	225.1	297.7	355.2	377.6
82.5°	118.3	163.9	241.5	301.8	321.4
85°	60.3	111.4	191.3	252.9	275.3
87.5°	16.0	72.1	148.8	207.7	230.6
90°	0.5	41.5	112.8	169.4	189.9
92.5°	0.5	23.3	84.0	134.7	155.7
95°	0.5	11.0	58.4	105.9	122.4
97.5°	0.5	4.6	40.2	79.9	96.3
100°	0.5	2.3	25.6	58.0	72.1
102.5°	0.9	1.4	16.0	41.5	53.0
105°	0.9	1.4	9.6	28.3	37.9



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CATALOG NUMBER: HVSL4-3-LD4-2HI-35-UNV-O-EDD-90

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.4	1.4	1.8	7.8	11.4
115°	1.4	1.4	1.8	5.0	7.3
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°	0.9	1.4	5.5	19.2	26.0
110°	1.4	1.4	3.2	11.9	17.4



(END OF REPORT)