

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: P580558

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

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580558
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-LD4-2STD-35-UNV-O-EDD
Description: 3 FOOT, 4INCH WIDE, HVSL LED LUMINAIRE, WITH 3500K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

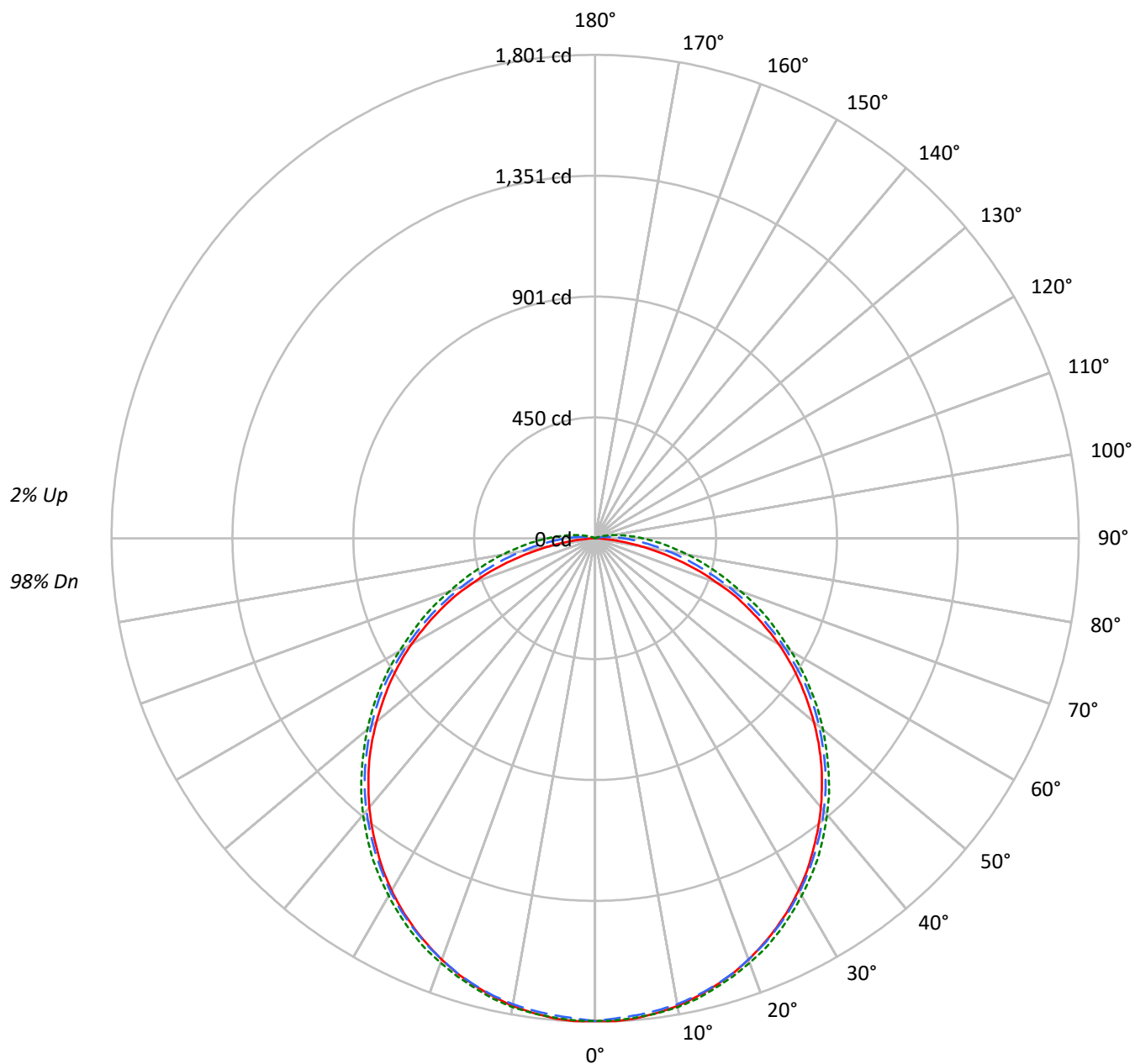
Lumens per Lamp: N/A
Luminaire Lumens: 5438.0 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 3' x H: 0.17')
CIE Type: Direct

Input Watts (W): 49.1
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°	19360	19360	19360
5°	19298	18628	18549
10°	19146	18016	17813
15°	18957	17390	17041
20°	18756	16737	16308
25°	18519	16087	15590
30°	18248	15420	14835
35°	17911	14720	14100
40°	17560	14002	13303
45°	17181	13243	12478
50°	16694	12409	11620
55°	16166	11518	10713
60°	15537	10450	9713
65°	14542	9294	8728
70°	13127	8001	7644
75°	11143	6635	6632
80°	8234	5307	5665
85°	4230	3997	4702



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.2	3.1
10°-20°	488.2	9.0
20°-30°	740.8	13.6
30°-40°	895.7	16.5
40°-50°	934.6	17.2
50°-60°	854.5	15.7
60°-70°	666.1	12.2
70°-80°	416.7	7.7
80°-90°	189.3	3.5
90°-100°	63.4	1.2
100°-110°	15.9	0.3
110°-120°	2.5	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°	1399.2	25.7
0°-40°	2294.9	42.2
0°-60°	4084.0	75.1
0°-90°	5356.1	98.5
90°-120°	81.9	1.5
90°-150°	81.9	1.5
90°-180°	82.0	1.5
0°-180°	5438.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1799	1799	1799	1799	1799	
5°	1795	1791	1783	1792	1792	170
15°	1726	1730	1725	1734	1734	487
25°	1600	1601	1603	1616	1619	737
35°	1416	1422	1428	1443	1449	886
45°	1191	1202	1212	1224	1230	918
55°	930	941	958	972	979	831
65°	639	650	672	699	710	632
75°	324	343	394	440	457	345
85°	56	104	178	235	256	71
90°	0	39	105	157	176	2
95°	0	10	54	98	114	0
105°	1	1	9	26	35	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°	1798.6	1798.6	1798.6	1798.6	1798.6
2.5°	1800.7	1798.1	1790.1	1798.1	1797.7
5°	1794.7	1791.4	1783.3	1791.8	1791.8
7.5°	1782.9	1781.6	1774.4	1784.1	1784.1
10°	1768.9	1768.5	1762.5	1773.1	1773.5
12.5°	1749.4	1751.1	1745.6	1755.7	1757.0
15°	1726.5	1729.5	1724.8	1734.5	1734.1
17.5°	1701.5	1703.2	1699.8	1710.8	1710.4
20°	1670.5	1672.6	1670.1	1681.5	1682.8
22.5°	1636.2	1639.1	1638.7	1650.6	1654.0
25°	1599.7	1601.0	1602.7	1616.2	1618.8
27.5°	1559.4	1561.6	1564.5	1576.8	1579.4
30°	1515.3	1518.7	1522.1	1534.8	1538.2
32.5°	1468.7	1472.1	1476.3	1492.9	1494.6
35°	1416.1	1422.5	1428.4	1442.8	1448.8
37.5°	1363.5	1371.6	1377.1	1392.4	1397.0
40°	1308.0	1316.1	1325.0	1341.1	1344.0
42.5°	1249.9	1259.2	1269.8	1284.3	1289.4
45°	1191.4	1202.0	1211.8	1223.6	1229.6
47.5°	1128.2	1138.8	1150.7	1164.3	1168.1
50°	1062.9	1075.2	1088.0	1100.7	1107.5
52.5°	996.0	1010.8	1025.2	1038.8	1045.1
55°	929.8	940.8	958.2	972.2	978.6
57.5°	861.1	870.4	886.1	909.0	912.4
60°	791.2	799.6	815.8	834.4	842.0
62.5°	714.0	725.4	742.4	766.1	772.9
65°	639.0	650.0	672.4	699.2	710.2
67.5°	566.4	570.3	599.1	627.1	644.9
70°	480.8	495.2	528.7	563.1	576.6
72.5°	407.0	421.4	458.3	498.6	515.6
75°	323.5	343.4	393.5	440.5	457.1
77.5°	250.2	272.2	334.1	381.6	400.7
80°	174.7	209.0	276.4	329.9	350.6
82.5°	109.8	152.2	224.3	280.3	298.5
85°	56.0	103.5	177.7	234.9	255.7
87.5°	14.8	67.0	138.2	192.9	214.1
90°	0.4	38.6	104.7	157.3	176.4
92.5°	0.4	21.6	78.0	125.1	144.6
95°	0.4	10.2	54.3	98.4	113.6
97.5°	0.4	4.2	37.3	74.2	89.5
100°	0.4	2.1	23.7	53.8	67.0
102.5°	0.8	1.3	14.8	38.6	49.2
105°	0.8	1.3	8.9	26.3	35.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.3	1.3	1.7	7.2	10.6
115°	1.3	1.3	1.7	4.7	6.8
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°	0.8	1.3	5.1	17.8	24.2
110°	1.3	1.3	3.0	11.0	16.1



(END OF REPORT)