

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: P580566

Luminaire Tested: **HVSL4-4-LD4-1HI-35-UNV-O-EDD**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580566
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: HVSL4-4-LD4-1HI-35-UNV-O-EDD
Description: 4 FOOT, 4INCH WIDE, HVSL LED LUMINAIRE, WITH 3500K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

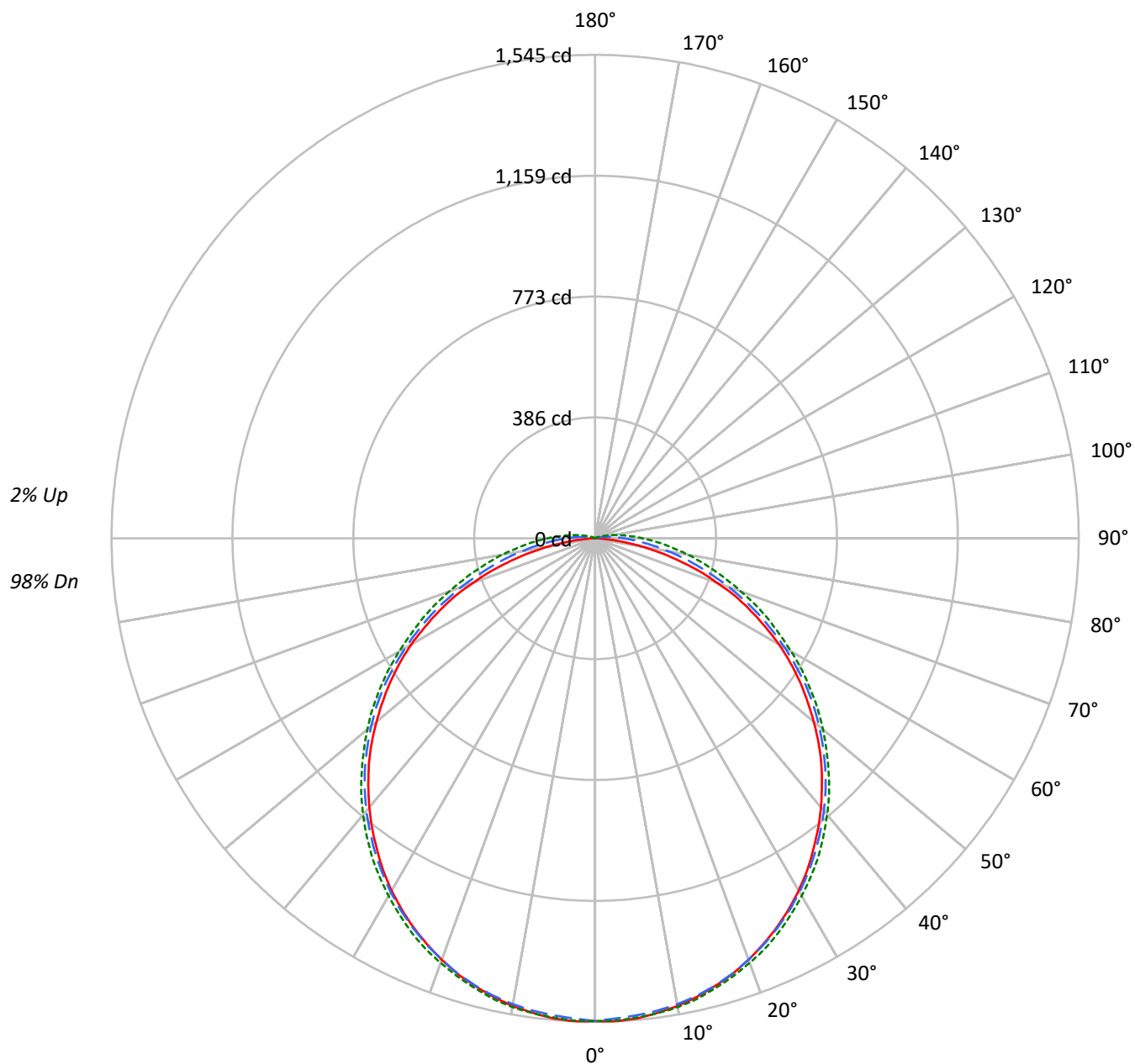
Lumens per Lamp: N/A
Luminaire Lumens: 4666.0 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 43.1
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°	12458	12458	12458
5°	12434	11997	11936
10°	12351	11613	11464
15°	12244	11217	10966
20°	12130	10804	10494
25°	11993	10393	10033
30°	11835	9969	9547
35°	11636	9524	9074
40°	11428	9067	8561
45°	11205	8582	8029
50°	10912	8049	7477
55°	10598	7480	6894
60°	10222	6793	6251
65°	9613	6051	5617
70°	8736	5217	4920
75°	7493	4334	4268
80°	5637	3476	3647
85°	3012	2624	3026



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.0	3.1
10°-20°	418.9	9.0
20°-30°	635.6	13.6
30°-40°	768.6	16.5
40°-50°	801.9	17.2
50°-60°	733.2	15.7
60°-70°	571.6	12.2
70°-80°	357.6	7.7
80°-90°	162.4	3.5
90°-100°	54.4	1.2
100°-110°	13.7	0.3
110°-120°	2.2	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°	1200.5	25.7
0°-40°	1969.1	42.2
0°-60°	3504.2	75.1
0°-90°	4595.8	98.5
90°-120°	70.3	1.5
90°-150°	70.3	1.5
90°-180°	70.0	1.5
0°-180°	4666.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1543	1543	1543	1543	1543	
5°	1540	1537	1530	1537	1537	146
15°	1481	1484	1480	1488	1488	418
25°	1373	1374	1375	1387	1389	632
35°	1215	1220	1226	1238	1243	761
45°	1022	1031	1040	1050	1055	788
55°	798	807	822	834	840	713
65°	548	558	577	600	609	542
75°	278	295	338	378	392	296
85°	48	89	152	202	219	61
90°	0	33	90	135	151	2
95°	0	9	47	84	98	0
105°	1	1	8	23	30	1
115°	1	1	2	4	6	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°	1543.2	1543.2	1543.2	1543.2	1543.2
2.5°	1545.0	1542.9	1536.0	1542.9	1542.5
5°	1540.0	1537.0	1530.1	1537.4	1537.4
7.5°	1529.8	1528.7	1522.5	1530.9	1530.9
10°	1517.8	1517.4	1512.3	1521.4	1521.8
12.5°	1501.0	1502.5	1497.8	1506.5	1507.6
15°	1481.4	1483.9	1479.9	1488.3	1487.9
17.5°	1459.9	1461.4	1458.5	1467.9	1467.6
20°	1433.4	1435.2	1433.0	1442.8	1443.9
22.5°	1403.9	1406.4	1406.1	1416.3	1419.2
25°	1372.6	1373.7	1375.2	1386.8	1389.0
27.5°	1338.0	1339.9	1342.4	1353.0	1355.1
30°	1300.2	1303.1	1306.0	1316.9	1319.9
32.5°	1260.2	1263.1	1266.7	1280.9	1282.4
35°	1215.1	1220.5	1225.6	1238.0	1243.1
37.5°	1170.0	1176.9	1181.6	1194.7	1198.7
40°	1122.3	1129.2	1136.9	1150.7	1153.2
42.5°	1072.5	1080.5	1089.6	1101.9	1106.3
45°	1022.3	1031.4	1039.7	1049.9	1055.0
47.5°	968.1	977.2	987.3	999.0	1002.3
50°	912.0	922.6	933.5	944.4	950.2
52.5°	854.6	867.3	879.7	891.3	896.8
55°	797.8	807.3	822.2	834.2	839.6
57.5°	738.9	746.9	760.3	780.0	782.9
60°	678.8	686.1	699.9	716.0	722.5
62.5°	612.6	622.5	637.0	657.4	663.2
65°	548.2	557.7	577.0	599.9	609.4
67.5°	486.0	489.3	514.0	538.1	553.3
70°	412.5	424.9	453.7	483.1	494.8
72.5°	349.2	361.6	393.3	427.8	442.4
75°	277.6	294.7	337.6	378.0	392.2
77.5°	214.6	233.6	286.7	327.4	343.8
80°	149.9	179.4	237.2	283.0	300.9
82.5°	94.2	130.6	192.4	240.5	256.1
85°	48.0	88.8	152.4	201.5	219.4
87.5°	12.7	57.5	118.6	165.5	183.7
90°	0.4	33.1	89.9	135.0	151.3
92.5°	0.4	18.6	66.9	107.3	124.1
95°	0.4	8.7	46.6	84.4	97.5
97.5°	0.4	3.6	32.0	63.7	76.8
100°	0.4	1.8	20.4	46.2	57.5
102.5°	0.7	1.1	12.7	33.1	42.2
105°	0.7	1.1	7.6	22.6	30.2



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CATALOG NUMBER: HVSL4-4-LD4-1HI-35-UNV-O-EDD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.1	1.1	1.5	6.2	9.1
115°	1.1	1.1	1.5	4.0	5.8
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°	0.7	1.1	4.4	15.3	20.7
110°	1.1	1.1	2.5	9.5	13.8



(END OF REPORT)