

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: P580550

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

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580550
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-LD4-2LO-35-UNV-O-EDD
Description: 3 FOOT, 4INCH WIDE, HVSL LED LUMINAIRE, WITH 3500K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

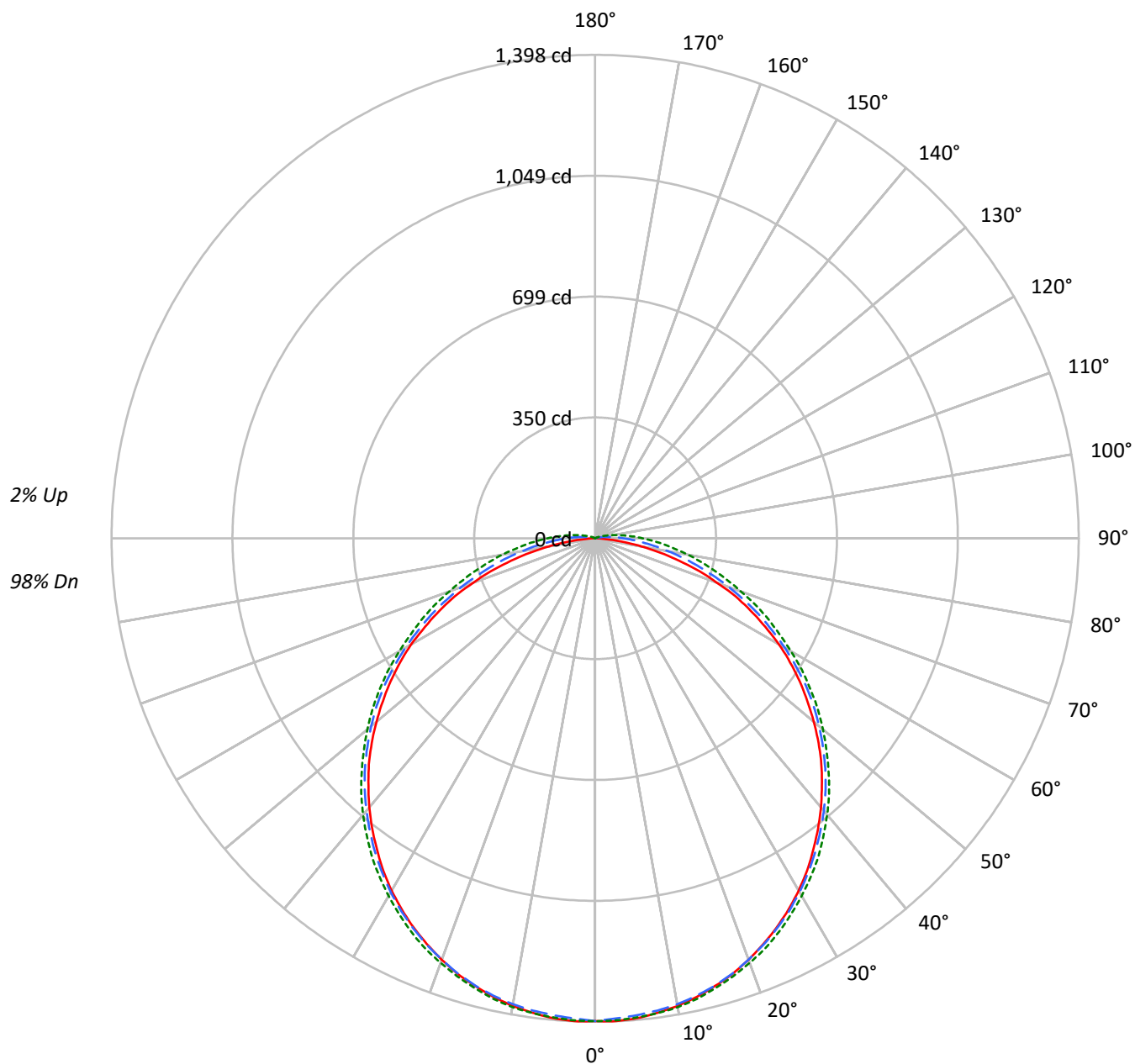
Lumens per Lamp: N/A
Luminaire Lumens: 4222.0 lumens
Efficiency: N/A
Efficacy: 121.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 3' x H: 0.17')
CIE Type: Direct

Input Watts (W): 34.7
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: P580550

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

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°	15031	15031	15031
5°	14983	14462	14401
10°	14864	13987	13831
15°	14718	13501	13230
20°	14562	12994	12661
25°	14378	12490	12104
30°	14168	11973	11518
35°	13907	11428	10947
40°	13633	10871	10328
45°	13340	10282	9687
50°	12962	9634	9021
55°	12551	8942	8317
60°	12064	8113	7542
65°	11290	7217	6776
70°	10192	6213	5935
75°	8653	5151	5149
80°	6391	4121	4398
85°	3286	3102	3650



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.1	3.1
10°-20°	379.0	9.0
20°-30°	575.1	13.6
30°-40°	695.4	16.5
40°-50°	725.6	17.2
50°-60°	663.4	15.7
60°-70°	517.2	12.2
70°-80°	323.5	7.7
80°-90°	146.9	3.5
90°-100°	49.2	1.2
100°-110°	12.4	0.3
110°-120°	1.9	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°	1086.3	25.7
0°-40°	1781.7	42.2
0°-60°	3170.8	75.1
0°-90°	4158.4	98.5
90°-120°	63.6	1.5
90°-150°	63.6	1.5
90°-180°	64.0	1.5
0°-180°	4222.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1396	1396	1396	1396	1396	
5°	1393	1391	1384	1391	1391	132
15°	1340	1343	1339	1347	1346	378
25°	1242	1243	1244	1255	1257	572
35°	1100	1104	1109	1120	1125	688
45°	925	933	941	950	955	713
55°	722	730	744	755	760	645
65°	496	505	522	543	551	491
75°	251	267	306	342	355	268
85°	44	80	138	182	198	55
90°	0	30	81	122	137	2
95°	0	8	42	76	88	0
105°	1	1	7	20	27	1
115°	1	1	1	4	5	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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CATALOG NUMBER: HVSL4-3-LD4-2LO-35-UNV-O-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1396.4	1396.4	1396.4	1396.4	1396.4
2.5°	1398.0	1396.1	1389.8	1396.1	1395.7
5°	1393.4	1390.8	1384.5	1391.1	1391.1
7.5°	1384.2	1383.2	1377.6	1385.2	1385.2
10°	1373.3	1373.0	1368.4	1376.6	1377.0
12.5°	1358.2	1359.5	1355.2	1363.1	1364.1
15°	1340.4	1342.7	1339.1	1346.7	1346.3
17.5°	1321.0	1322.3	1319.7	1328.2	1327.9
20°	1297.0	1298.6	1296.6	1305.5	1306.5
22.5°	1270.3	1272.6	1272.3	1281.5	1284.1
25°	1242.0	1243.0	1244.3	1254.8	1256.8
27.5°	1210.7	1212.4	1214.7	1224.2	1226.2
30°	1176.5	1179.1	1181.8	1191.6	1194.3
32.5°	1140.3	1142.9	1146.2	1159.0	1160.4
35°	1099.5	1104.4	1109.0	1120.2	1124.8
37.5°	1058.6	1064.9	1069.2	1081.0	1084.6
40°	1015.5	1021.8	1028.7	1041.2	1043.5
42.5°	970.4	977.7	985.9	997.1	1001.0
45°	925.0	933.2	940.8	950.0	954.6
47.5°	875.9	884.2	893.4	903.9	906.9
50°	825.3	834.8	844.7	854.6	859.8
52.5°	773.2	784.8	796.0	806.5	811.4
55°	721.9	730.5	743.9	754.8	759.7
57.5°	668.6	675.8	688.0	705.8	708.4
60°	614.3	620.8	633.3	647.8	653.8
62.5°	554.3	563.2	576.4	594.8	600.1
65°	496.1	504.6	522.1	542.8	551.4
67.5°	439.8	442.7	465.1	486.9	500.7
70°	373.3	384.5	410.5	437.2	447.7
72.5°	316.0	327.2	355.8	387.1	400.3
75°	251.2	266.6	305.5	342.0	354.9
77.5°	194.2	211.3	259.4	296.3	311.1
80°	135.6	162.3	214.6	256.1	272.2
82.5°	85.3	118.2	174.1	217.6	231.7
85°	43.5	80.3	137.9	182.4	198.5
87.5°	11.5	52.0	107.3	149.8	166.2
90°	0.3	30.0	81.3	122.1	136.9
92.5°	0.3	16.8	60.6	97.1	112.3
95°	0.3	7.9	42.1	76.4	88.2
97.5°	0.3	3.3	29.0	57.6	69.5
100°	0.3	1.6	18.4	41.8	52.0
102.5°	0.7	1.0	11.5	30.0	38.2
105°	0.7	1.0	6.9	20.4	27.3



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

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.0	1.0	1.3	5.6	8.2
115°	1.0	1.0	1.3	3.6	5.3
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°	0.7	1.0	4.0	13.8	18.8
110°	1.0	1.0	2.3	8.6	12.5



(END OF REPORT)