

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: P580557

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

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580557
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-90
Description: 3 FOOT, 4INCH WIDE, HVSL LED LUMINAIRE, WITH 3500K, 90 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

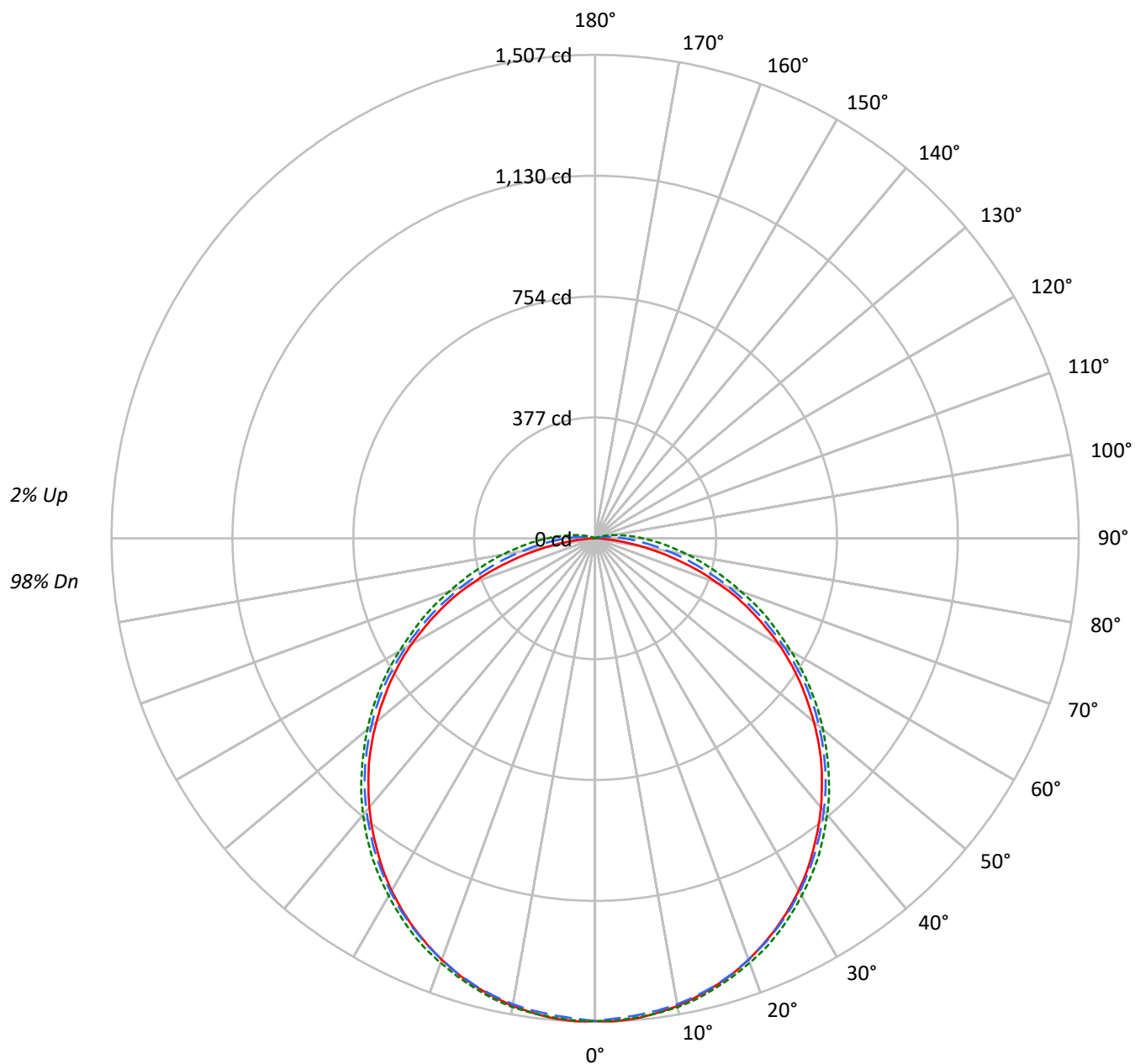
Lumens per Lamp: N/A
Luminaire Lumens: 4551.0 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 3' x H: 0.17')
CIE Type: Direct

Input Watts (W): 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°	16202	16202	16202
5°	16151	15590	15523
10°	16024	15077	14909
15°	15865	14554	14262
20°	15696	14007	13648
25°	15499	13463	13047
30°	15273	12905	12415
35°	14989	12319	11800
40°	14697	11717	11133
45°	14379	11083	10442
50°	13972	10384	9724
55°	13528	9640	8966
60°	13002	8745	8129
65°	12169	7779	7304
70°	10987	6697	6398
75°	9324	5553	5550
80°	6891	4443	4741
85°	3535	3344	3935



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.4	3.1
10°-20°	408.6	9.0
20°-30°	619.9	13.6
30°-40°	749.6	16.5
40°-50°	782.2	17.2
50°-60°	715.1	15.7
60°-70°	557.5	12.2
70°-80°	348.7	7.7
80°-90°	158.4	3.5
90°-100°	53.1	1.2
100°-110°	13.3	0.3
110°-120°	2.1	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°	1171.0	25.7
0°-40°	1920.6	42.2
0°-60°	3417.9	75.1
0°-90°	4482.5	98.5
90°-120°	68.5	1.5
90°-150°	68.5	1.5
90°-180°	69.0	1.5
0°-180°	4551.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1505	1505	1505	1505	1505	
5°	1502	1499	1492	1500	1500	143
15°	1445	1447	1444	1452	1451	408
25°	1339	1340	1341	1353	1355	617
35°	1185	1190	1195	1208	1212	742
45°	997	1006	1014	1024	1029	768
55°	778	787	802	814	819	695
65°	535	544	563	585	594	529
75°	271	287	329	369	382	289
85°	47	87	149	197	214	59
90°	0	32	88	132	148	2
95°	0	8	45	82	95	0
105°	1	1	8	22	30	1
115°	1	1	1	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°	1505.2	1505.2	1505.2	1505.2	1505.2
2.5°	1507.0	1504.8	1498.1	1504.8	1504.5
5°	1502.0	1499.2	1492.4	1499.5	1499.5
7.5°	1492.1	1491.0	1485.0	1493.1	1493.1
10°	1480.4	1480.0	1475.0	1483.9	1484.3
12.5°	1464.0	1465.5	1460.8	1469.4	1470.4
15°	1444.9	1447.4	1443.5	1451.6	1451.3
17.5°	1423.9	1425.4	1422.5	1431.7	1431.4
20°	1398.0	1399.8	1397.7	1407.3	1408.3
22.5°	1369.3	1371.8	1371.4	1381.4	1384.2
25°	1338.8	1339.8	1341.3	1352.6	1354.7
27.5°	1305.1	1306.8	1309.3	1319.6	1321.7
30°	1268.2	1271.0	1273.8	1284.5	1287.3
32.5°	1229.1	1232.0	1235.5	1249.4	1250.8
35°	1185.1	1190.5	1195.4	1207.5	1212.5
37.5°	1141.1	1147.9	1152.5	1165.3	1169.2
40°	1094.7	1101.4	1108.8	1122.3	1124.8
42.5°	1046.0	1053.9	1062.7	1074.8	1079.0
45°	997.1	1005.9	1014.1	1024.0	1029.0
47.5°	944.2	953.1	963.0	974.4	977.6
50°	889.6	899.9	910.5	921.1	926.8
52.5°	833.5	845.9	858.0	869.3	874.7
55°	778.1	787.4	801.9	813.6	819.0
57.5°	720.7	728.5	741.6	760.8	763.6
60°	662.1	669.2	682.7	698.3	704.7
62.5°	597.5	607.1	621.3	641.2	646.9
65°	534.7	544.0	562.8	585.1	594.3
67.5°	474.1	477.2	501.4	524.8	539.7
70°	402.4	414.4	442.5	471.2	482.6
72.5°	340.6	352.7	383.6	417.3	431.5
75°	270.7	287.4	329.3	368.7	382.5
77.5°	209.4	227.8	279.6	319.3	335.3
80°	146.2	174.9	231.4	276.1	293.4
82.5°	91.9	127.4	187.7	234.5	249.8
85°	46.8	86.6	148.7	196.6	214.0
87.5°	12.4	56.1	115.7	161.4	179.2
90°	0.4	32.3	87.6	131.6	147.6
92.5°	0.4	18.1	65.3	104.7	121.0
95°	0.4	8.5	45.4	82.3	95.1
97.5°	0.4	3.5	31.2	62.1	74.9
100°	0.4	1.8	19.9	45.1	56.1
102.5°	0.7	1.1	12.4	32.3	41.2
105°	0.7	1.1	7.5	22.0	29.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.1	1.1	1.4	6.0	8.9
115°	1.1	1.1	1.4	3.9	5.7
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	4.3	14.9	20.2
110°	1.1	1.1	2.5	9.2	13.5



(END OF REPORT)