

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: P580556

Luminaire Tested: **HVSL4-3-LD4-2STD-30-UNV-O-EDD**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580556
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-30-UNV-O-EDD
Description: 3 FOOT, 4INCH WIDE, HVSL LED LUMINAIRE, WITH 3000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

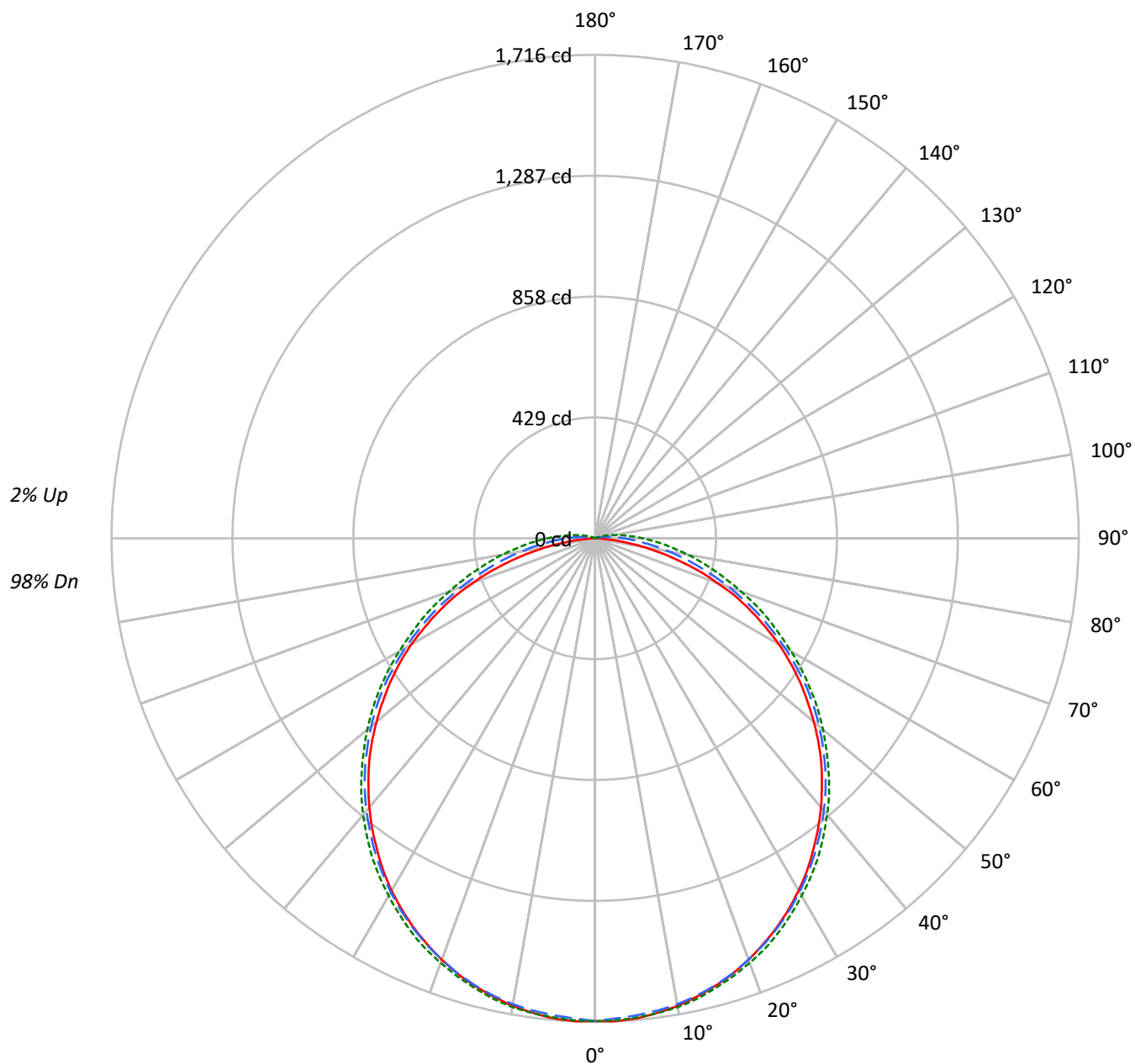
Lumens per Lamp: N/A
Luminaire Lumens: 5182.0 lumens
Efficiency: N/A
Efficacy: 105.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 3' x H: 0.17')
CIE Type: Direct

Input Watts (W): 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°	18448	18448	18448
5°	18390	17751	17675
10°	18245	17169	16976
15°	18065	16571	16239
20°	17873	15949	15540
25°	17648	15329	14856
30°	17390	14695	14137
35°	17069	14027	13436
40°	16733	13342	12677
45°	16372	12619	11890
50°	15908	11824	11073
55°	15404	10976	10209
60°	14805	9958	9256
65°	13857	8857	8316
70°	12510	7625	7285
75°	10620	6322	6319
80°	7848	5058	5399
85°	4026	3808	4480



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.2	3.1
10°-20°	465.2	9.0
20°-30°	705.9	13.6
30°-40°	853.6	16.5
40°-50°	890.6	17.2
50°-60°	814.3	15.7
60°-70°	634.8	12.2
70°-80°	397.1	7.7
80°-90°	180.3	3.5
90°-100°	60.4	1.2
100°-110°	15.2	0.3
110°-120°	2.4	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°	1333.3	25.7
0°-40°	2186.9	42.2
0°-60°	3891.8	75.1
0°-90°	5104.0	98.5
90°-120°	78.0	1.5
90°-150°	78.0	1.5
90°-180°	78.0	1.5
0°-180°	5182.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1714	1714	1714	1714	1714	
5°	1710	1707	1699	1707	1707	162
15°	1645	1648	1644	1653	1652	464
25°	1524	1526	1527	1540	1543	702
35°	1350	1356	1361	1375	1381	845
45°	1135	1145	1155	1166	1172	875
55°	886	896	913	926	932	792
65°	609	619	641	666	677	602
75°	308	327	375	420	436	329
85°	53	99	169	224	244	67
90°	0	37	100	150	168	2
95°	0	10	52	94	108	0
105°	1	1	8	25	34	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°	1713.9	1713.9	1713.9	1713.9	1713.9
2.5°	1715.9	1713.5	1705.8	1713.5	1713.1
5°	1710.3	1707.0	1699.3	1707.4	1707.4
7.5°	1698.9	1697.7	1690.9	1700.2	1700.2
10°	1685.6	1685.2	1679.6	1689.7	1690.1
12.5°	1667.0	1668.6	1663.4	1673.1	1674.3
15°	1645.2	1648.0	1643.6	1652.9	1652.5
17.5°	1621.4	1623.0	1619.8	1630.3	1629.9
20°	1591.9	1593.9	1591.5	1602.4	1603.6
22.5°	1559.1	1562.0	1561.6	1572.9	1576.1
25°	1524.4	1525.6	1527.2	1540.2	1542.6
27.5°	1486.0	1488.0	1490.9	1502.6	1505.0
30°	1444.0	1447.2	1450.5	1462.6	1465.8
32.5°	1399.6	1402.8	1406.8	1422.6	1424.2
35°	1349.5	1355.5	1361.2	1374.9	1380.6
37.5°	1299.4	1307.0	1312.3	1326.8	1331.3
40°	1246.4	1254.1	1262.6	1277.9	1280.8
42.5°	1191.1	1200.0	1210.1	1223.8	1228.7
45°	1135.3	1145.4	1154.7	1166.0	1171.7
47.5°	1075.1	1085.2	1096.5	1109.5	1113.1
50°	1012.9	1024.6	1036.7	1048.9	1055.3
52.5°	949.1	963.2	976.9	989.9	995.9
55°	886.0	896.5	913.1	926.4	932.5
57.5°	820.6	829.5	844.4	866.2	869.5
60°	753.9	762.0	777.4	795.1	802.4
62.5°	680.4	691.3	707.5	730.1	736.5
65°	608.9	619.4	640.8	666.2	676.7
67.5°	539.8	543.4	570.9	597.6	614.5
70°	458.2	471.9	503.8	536.6	549.5
72.5°	387.9	401.6	436.8	475.1	491.3
75°	308.3	327.3	374.9	419.8	435.5
77.5°	238.4	259.4	318.4	363.6	381.8
80°	166.5	199.2	263.4	314.3	334.1
82.5°	104.6	145.0	213.7	267.1	284.4
85°	53.3	98.6	169.3	223.8	243.6
87.5°	14.1	63.8	131.7	183.8	204.0
90°	0.4	36.8	99.8	149.9	168.1
92.5°	0.4	20.6	74.3	119.2	137.8
95°	0.4	9.7	51.7	93.7	108.3
97.5°	0.4	4.0	35.6	70.7	85.3
100°	0.4	2.0	22.6	51.3	63.8
102.5°	0.8	1.2	14.1	36.8	46.9
105°	0.8	1.2	8.5	25.0	33.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.2	1.2	1.6	6.9	10.1
115°	1.2	1.2	1.6	4.4	6.5
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	1.2	4.8	17.0	23.0
110°	1.2	1.2	2.8	10.5	15.4



(END OF REPORT)