

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: P580235

Luminaire Tested: **HVSL12-4-LD4-3LO-30-UNV-O-EDD-90**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580235
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: HVSL12-4-LD4-3LO-30-UNV-O-EDD-90
Description: 4 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 3000K, 90 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

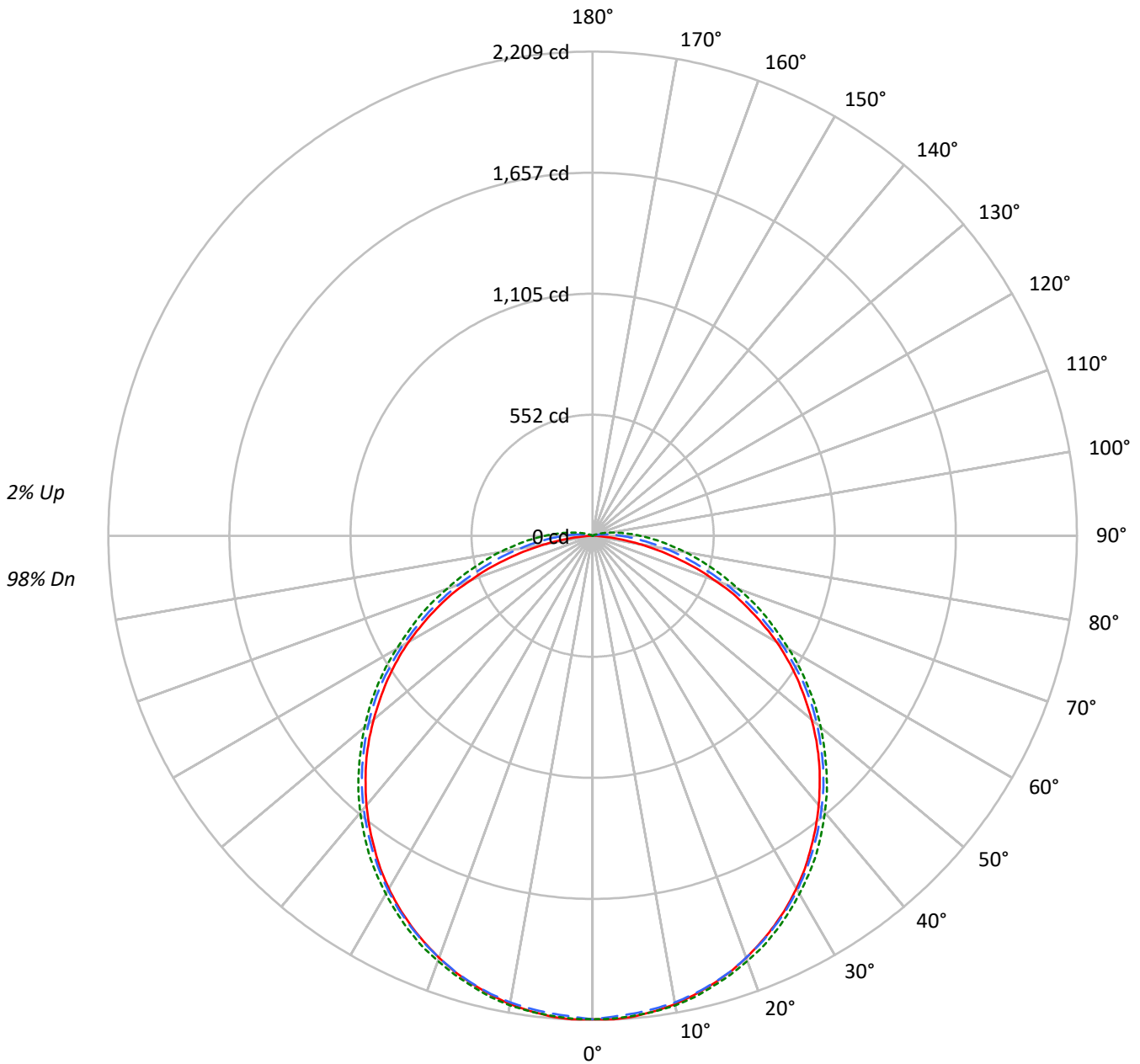
Lumens per Lamp: N/A
Luminaire Lumens: 6670.0 lumens
Efficiency: N/A
Efficacy: 93.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 71.4
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				20
RC	80				70				50				30				10				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
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°	5936	5936	5936
5°	5925	5833	5851
10°	5885	5758	5775
15°	5834	5670	5672
20°	5780	5568	5573
25°	5715	5462	5470
30°	5639	5346	5348
35°	5544	5217	5227
40°	5445	5081	5080
45°	5339	4930	4919
50°	5200	4752	4744
55°	5050	4555	4548
60°	4871	4290	4313
65°	4581	3991	4086
70°	4163	3632	3817
75°	3570	3237	3593
80°	2686	2863	3426
85°	1435	2506	3333



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.8	3.1
10°-20°	598.8	9.0
20°-30°	908.6	13.6
30°-40°	1098.6	16.5
40°-50°	1146.3	17.2
50°-60°	1048.1	15.7
60°-70°	817.1	12.2
70°-80°	511.1	7.7
80°-90°	232.1	3.5
90°-100°	77.8	1.2
100°-110°	19.5	0.3
110°-120°	3.1	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°	1716.2	25.7
0°-40°	2814.8	42.2
0°-60°	5009.3	75.1
0°-90°	6569.6	98.5
90°-120°	100.4	1.5
90°-150°	100.4	1.5
90°-180°	100.0	1.5
0°-180°	6670.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2206	2206	2206	2206	2206	
5°	2201	2197	2187	2198	2198	209
15°	2118	2121	2116	2128	2127	598
25°	1962	1964	1966	1982	1986	904
35°	1737	1745	1752	1770	1777	1087
45°	1461	1474	1486	1501	1508	1126
55°	1140	1154	1175	1192	1200	1019
65°	784	797	825	858	871	775
75°	397	421	483	540	561	423
85°	69	127	218	288	314	87
90°	0	47	128	193	216	3
95°	0	12	67	121	139	0
105°	1	2	11	32	43	1
115°	2	2	2	6	8	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	0



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CATALOG NUMBER: HVSL12-4-LD4-3LO-30-UNV-O-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2206.0	2206.0	2206.0	2206.0	2206.0
2.5°	2208.6	2205.5	2195.6	2205.5	2205.0
5°	2201.4	2197.2	2187.3	2197.7	2197.7
7.5°	2186.8	2185.2	2176.4	2188.4	2188.4
10°	2169.6	2169.1	2161.8	2174.8	2175.4
12.5°	2145.7	2147.8	2141.0	2153.5	2155.1
15°	2117.6	2121.3	2115.5	2127.5	2127.0
17.5°	2086.9	2089.0	2084.9	2098.4	2097.9
20°	2049.0	2051.6	2048.5	2062.5	2064.1
22.5°	2006.9	2010.5	2010.0	2024.5	2028.7
25°	1962.1	1963.7	1965.8	1982.4	1985.5
27.5°	1912.7	1915.3	1919.0	1934.0	1937.2
30°	1858.6	1862.8	1867.0	1882.6	1886.7
32.5°	1801.4	1805.6	1810.8	1831.1	1833.2
35°	1737.0	1744.8	1752.0	1769.7	1777.0
37.5°	1672.5	1682.3	1689.1	1707.8	1713.5
40°	1604.3	1614.2	1625.1	1644.9	1648.5
42.5°	1533.1	1544.5	1557.5	1575.2	1581.5
45°	1461.3	1474.3	1486.3	1500.9	1508.1
47.5°	1383.8	1396.8	1411.4	1428.0	1432.7
50°	1303.8	1318.8	1334.4	1350.0	1358.4
52.5°	1221.6	1239.8	1257.5	1274.1	1281.9
55°	1140.5	1154.0	1175.3	1192.5	1200.3
57.5°	1056.2	1067.7	1086.9	1115.0	1119.1
60°	970.4	980.8	1000.6	1023.4	1032.8
62.5°	875.8	889.8	910.6	939.7	948.0
65°	783.7	797.2	824.8	857.6	871.1
67.5°	694.8	699.5	734.8	769.1	791.0
70°	589.7	607.4	648.5	690.6	707.3
72.5°	499.2	516.9	562.2	611.6	632.4
75°	396.8	421.2	482.6	540.3	560.6
77.5°	306.8	333.9	409.8	468.0	491.4
80°	214.3	256.4	339.1	404.6	430.1
82.5°	134.7	186.7	275.1	343.8	366.1
85°	68.6	126.9	217.9	288.1	313.6
87.5°	18.2	82.2	169.5	236.6	262.6
90°	0.5	47.3	128.5	192.9	216.3
92.5°	0.5	26.5	95.7	153.4	177.3
95°	0.5	12.5	66.6	120.7	139.4
97.5°	0.5	5.2	45.8	91.0	109.7
100°	0.5	2.6	29.1	66.0	82.2
102.5°	1.0	1.6	18.2	47.3	60.3
105°	1.0	1.6	10.9	32.2	43.2



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CATALOG NUMBER: HVSL12-4-LD4-3LO-30-UNV-O-EDD-90

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.6	1.6	2.1	8.8	13.0
115°	1.6	1.6	2.1	5.7	8.3
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°	1.0	1.6	6.2	21.8	29.6
110°	1.6	1.6	3.6	13.5	19.8



(END OF REPORT)