

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: P580236

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

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580236
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
Description: 4 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 3000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

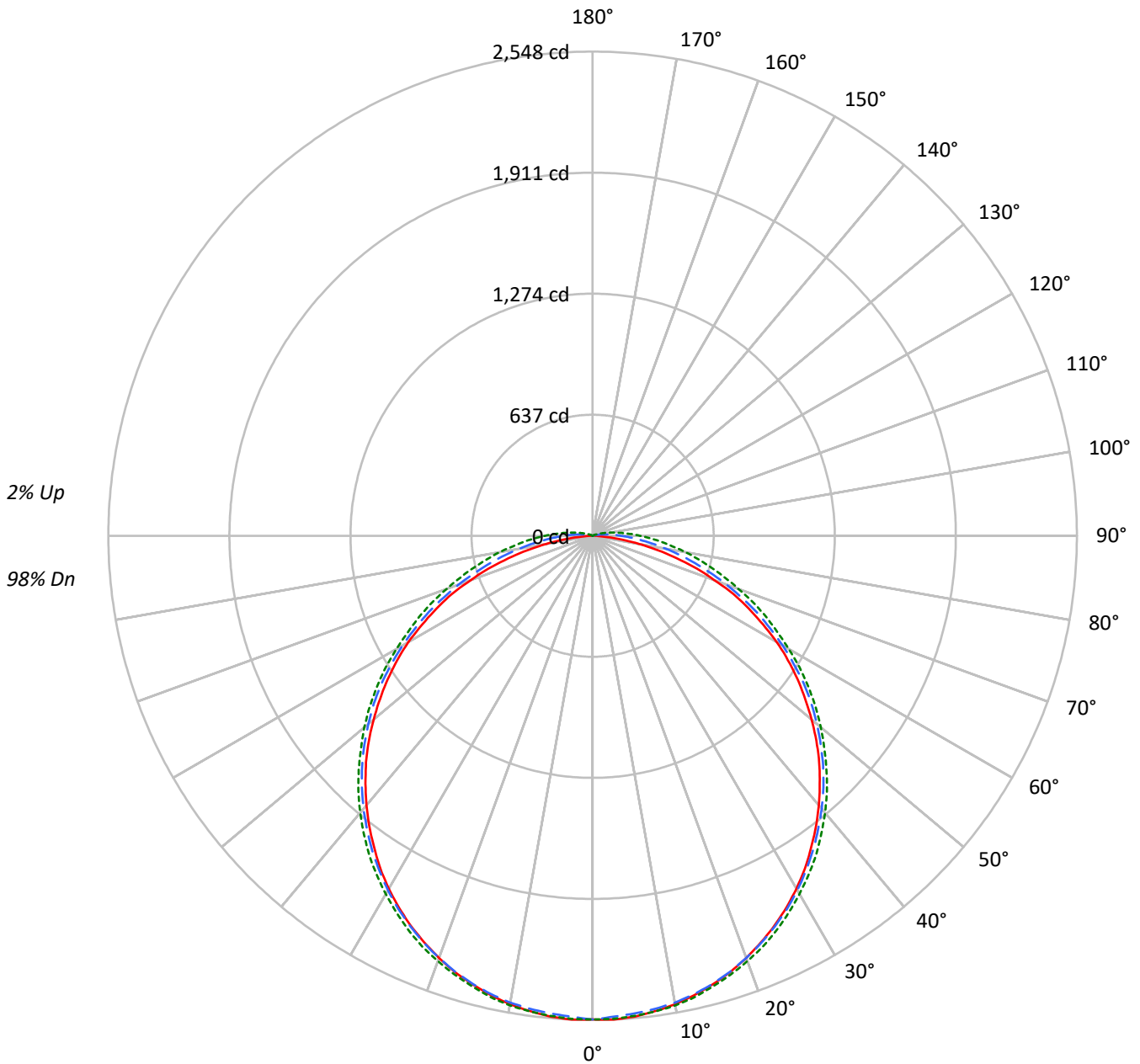
Lumens per Lamp: N/A
Luminaire Lumens: 7696.0 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.17')
CIE Type: Direct

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									
RC	80									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°	6850	6850	6850
5°	6836	6731	6751
10°	6791	6643	6663
15°	6732	6542	6545
20°	6669	6424	6430
25°	6594	6302	6312
30°	6507	6169	6170
35°	6397	6020	6031
40°	6283	5862	5862
45°	6160	5688	5676
50°	6000	5483	5474
55°	5827	5256	5248
60°	5620	4950	4977
65°	5286	4605	4714
70°	4803	4191	4404
75°	4119	3735	4146
80°	3098	3303	3953
85°	1656	2892	3845



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.9	3.1
10°-20°	690.9	9.0
20°-30°	1048.4	13.6
30°-40°	1267.6	16.5
40°-50°	1322.7	17.2
50°-60°	1209.3	15.7
60°-70°	942.8	12.3
70°-80°	589.7	7.7
80°-90°	267.8	3.5
90°-100°	89.8	1.2
100°-110°	22.5	0.3
110°-120°	3.6	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°	1980.2	25.7
0°-40°	3247.8	42.2
0°-60°	5779.8	75.1
0°-90°	7580.1	98.5
90°-120°	115.9	1.5
90°-150°	115.9	1.5
90°-180°	116.0	1.5
0°-180°	7696.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2545	2545	2545	2545	2545	
5°	2540	2535	2524	2536	2536	241
15°	2443	2448	2441	2455	2454	690
25°	2264	2266	2268	2287	2291	1043
35°	2004	2013	2022	2042	2050	1254
45°	1686	1701	1715	1732	1740	1299
55°	1316	1332	1356	1376	1385	1176
65°	904	920	952	990	1005	895
75°	458	486	557	623	647	488
85°	79	146	251	332	362	100
90°	1	55	148	223	250	3
95°	1	14	77	139	161	0
105°	1	2	13	37	50	1
115°	2	2	2	7	10	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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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2545.4	2545.4	2545.4	2545.4	2545.4
2.5°	2548.4	2544.8	2533.4	2544.8	2544.2
5°	2540.0	2535.2	2523.8	2535.8	2535.8
7.5°	2523.2	2521.4	2511.2	2525.0	2525.0
10°	2503.4	2502.8	2494.4	2509.4	2510.0
12.5°	2475.8	2478.2	2470.4	2484.8	2486.6
15°	2443.4	2447.6	2441.0	2454.8	2454.2
17.5°	2408.0	2410.4	2405.6	2421.2	2420.6
20°	2364.2	2367.2	2363.6	2379.8	2381.6
22.5°	2315.6	2319.8	2319.2	2336.0	2340.8
25°	2264.0	2265.8	2268.2	2287.4	2291.0
27.5°	2206.9	2209.9	2214.1	2231.6	2235.2
30°	2144.5	2149.3	2154.1	2172.1	2176.9
32.5°	2078.5	2083.3	2089.3	2112.7	2115.1
35°	2004.1	2013.1	2021.5	2041.9	2050.3
37.5°	1929.7	1941.1	1948.9	1970.5	1977.1
40°	1851.1	1862.5	1875.1	1897.9	1902.1
42.5°	1768.9	1782.1	1797.1	1817.5	1824.7
45°	1686.1	1701.1	1714.9	1731.7	1740.1
47.5°	1596.7	1611.7	1628.5	1647.7	1653.1
50°	1504.3	1521.7	1539.7	1557.7	1567.3
52.5°	1409.5	1430.5	1450.9	1470.1	1479.1
55°	1315.9	1331.5	1356.1	1375.9	1384.9
57.5°	1218.7	1231.9	1254.1	1286.5	1291.3
60°	1119.7	1131.7	1154.5	1180.9	1191.7
62.5°	1010.5	1026.7	1050.7	1084.3	1093.9
65°	904.3	919.9	951.7	989.5	1005.1
67.5°	801.7	807.1	847.9	887.5	912.7
70°	680.4	700.8	748.3	796.9	816.1
72.5°	576.0	596.4	648.6	705.6	729.6
75°	457.8	486.0	556.8	623.4	646.8
77.5°	354.0	385.2	472.8	540.0	567.0
80°	247.2	295.8	391.2	466.8	496.2
82.5°	155.4	215.4	317.4	396.6	422.4
85°	79.2	146.4	251.4	332.4	361.8
87.5°	21.0	94.8	195.6	273.0	303.0
90°	0.6	54.6	148.2	222.6	249.6
92.5°	0.6	30.6	110.4	177.0	204.6
95°	0.6	14.4	76.8	139.2	160.8
97.5°	0.6	6.0	52.8	105.0	126.6
100°	0.6	3.0	33.6	76.2	94.8
102.5°	1.2	1.8	21.0	54.6	69.6
105°	1.2	1.8	12.6	37.2	49.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.8	1.8	2.4	10.2	15.0
115°	1.8	1.8	2.4	6.6	9.6
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°	1.2	1.8	7.2	25.2	34.2
110°	1.8	1.8	4.2	15.6	22.8



(END OF REPORT)