

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: P580155

Luminaire Tested: **HVSL12-2-LD4-3HI-30-UNV-O-EDD-90**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580155
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: HVSL12-2-LD4-3HI-30-UNV-O-EDD-90
Description: 2 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 3000K, 90 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

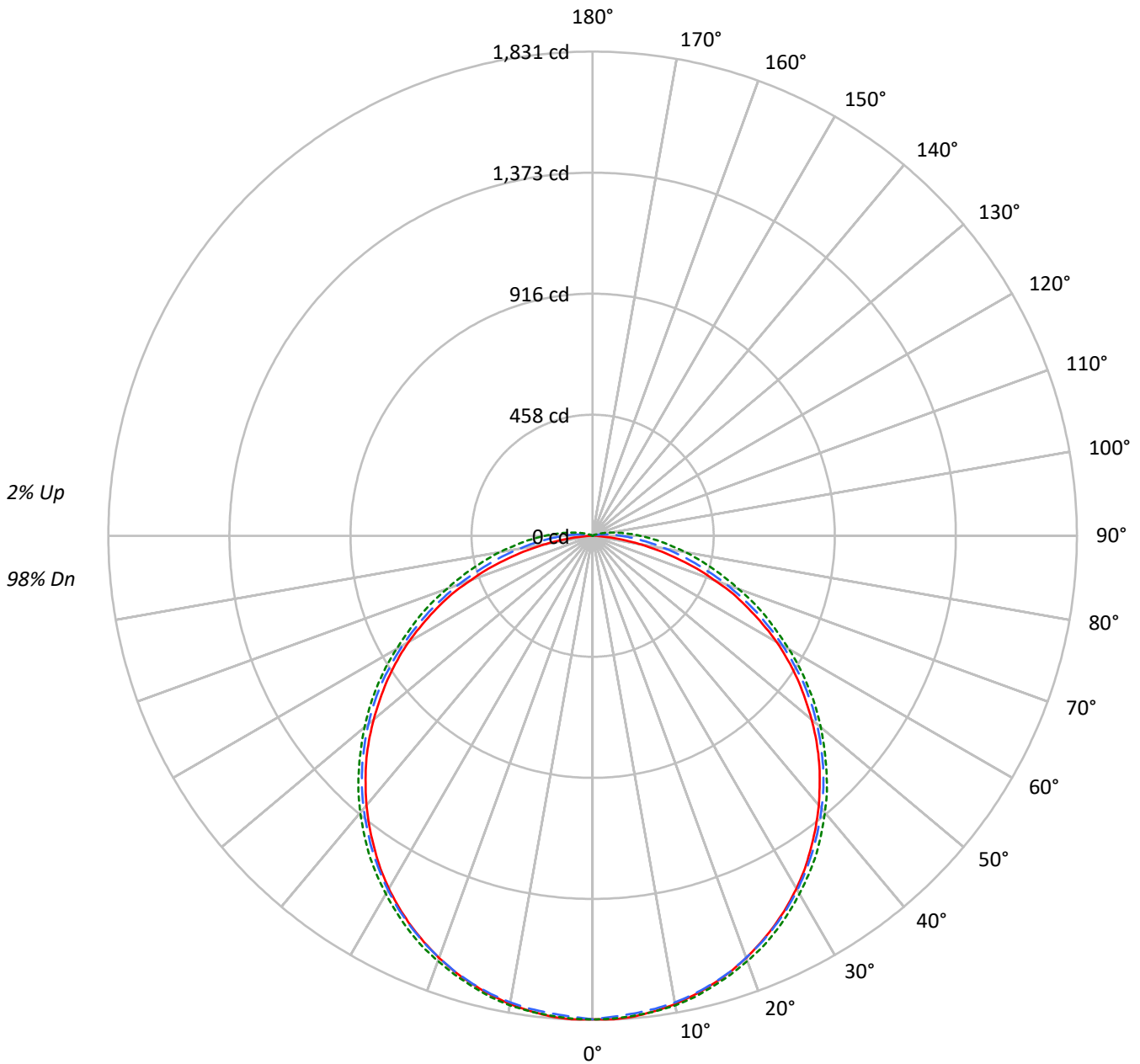
Lumens per Lamp: N/A
Luminaire Lumens: 5529.0 lumens
Efficiency: N/A
Efficacy: 82.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 2' x H: 0.17')
CIE Type: Direct

Input Watts (W): 66.7
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

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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°	9842	9842	9842
5°	9787	9646	9701
10°	9686	9497	9573
15°	9567	9329	9404
20°	9441	9137	9239
25°	9297	8939	9069
30°	9135	8727	8866
35°	8938	8491	8666
40°	8733	8242	8422
45°	8510	7968	8155
50°	8231	7650	7865
55°	7927	7299	7540
60°	7566	6835	7150
65°	7018	6313	6774
70°	6258	5694	6328
75°	5217	5011	5957
80°	3738	4350	5680
85°	1799	3692	5524



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.0	3.1
10°-20°	496.4	9.0
20°-30°	753.2	13.6
30°-40°	910.7	16.5
40°-50°	950.3	17.2
50°-60°	868.8	15.7
60°-70°	677.3	12.2
70°-80°	423.7	7.7
80°-90°	192.4	3.5
90°-100°	64.5	1.2
100°-110°	16.2	0.3
110°-120°	2.5	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°	1422.6	25.7
0°-40°	2333.3	42.2
0°-60°	4152.4	75.1
0°-90°	5445.8	98.5
90°-120°	83.2	1.5
90°-150°	83.2	1.5
90°-180°	83.0	1.5
0°-180°	5529.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1829	1829	1829	1829	1829	
5°	1825	1821	1813	1822	1822	173
15°	1755	1758	1754	1764	1763	496
25°	1626	1628	1630	1643	1646	749
35°	1440	1446	1452	1467	1473	901
45°	1211	1222	1232	1244	1250	933
55°	945	957	974	988	995	845
65°	650	661	684	711	722	643
75°	329	349	400	448	465	351
85°	57	105	181	239	260	72
90°	0	39	106	160	179	2
95°	0	10	55	100	116	0
105°	1	1	9	27	36	1
115°	1	1	2	5	7	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°	1828.7	1828.7	1828.7	1828.7	1828.7
2.5°	1830.8	1828.2	1820.0	1828.2	1827.8
5°	1824.8	1821.3	1813.1	1821.8	1821.8
7.5°	1812.7	1811.4	1804.1	1814.0	1814.0
10°	1798.5	1798.1	1792.0	1802.8	1803.2
12.5°	1778.7	1780.4	1774.8	1785.1	1786.4
15°	1755.4	1758.4	1753.7	1763.6	1763.1
17.5°	1729.9	1731.7	1728.2	1739.4	1739.0
20°	1698.5	1700.6	1698.0	1709.7	1711.0
22.5°	1663.6	1666.6	1666.1	1678.2	1681.7
25°	1626.5	1627.8	1629.5	1643.3	1645.9
27.5°	1585.5	1587.7	1590.7	1603.2	1605.8
30°	1540.7	1544.1	1547.6	1560.5	1564.0
32.5°	1493.3	1496.7	1501.0	1517.8	1519.6
35°	1439.8	1446.3	1452.3	1467.0	1473.0
37.5°	1386.4	1394.6	1400.2	1415.7	1420.4
40°	1329.9	1338.1	1347.1	1363.5	1366.5
42.5°	1270.8	1280.3	1291.1	1305.8	1310.9
45°	1211.3	1222.1	1232.0	1244.1	1250.1
47.5°	1147.1	1157.9	1170.0	1183.8	1187.6
50°	1080.7	1093.2	1106.2	1119.1	1126.0
52.5°	1012.6	1027.7	1042.4	1056.2	1062.6
55°	945.4	956.6	974.3	988.5	994.9
57.5°	875.5	885.0	901.0	924.2	927.7
60°	804.4	813.0	829.4	848.4	856.1
62.5°	725.9	737.6	754.8	779.0	785.9
65°	649.6	660.9	683.7	710.9	722.1
67.5°	575.9	579.8	609.1	637.6	655.7
70°	488.8	503.5	537.6	572.5	586.3
72.5°	413.8	428.5	466.0	507.0	524.2
75°	328.9	349.2	400.0	447.9	464.7
77.5°	254.3	276.8	339.7	388.0	407.4
80°	177.6	212.5	281.1	335.4	356.5
82.5°	111.7	154.8	228.0	284.9	303.5
85°	56.9	105.2	180.6	238.8	259.9
87.5°	15.1	68.1	140.5	196.1	217.7
90°	0.4	39.2	106.5	159.9	179.3
92.5°	0.4	22.0	79.3	127.2	147.0
95°	0.4	10.3	55.2	100.0	115.5
97.5°	0.4	4.3	37.9	75.4	91.0
100°	0.4	2.2	24.1	54.7	68.1
102.5°	0.9	1.3	15.1	39.2	50.0
105°	0.9	1.3	9.1	26.7	35.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.3	1.3	1.7	7.3	10.8
115°	1.3	1.3	1.7	4.7	6.9
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°	0.9	1.3	5.2	18.1	24.6
110°	1.3	1.3	3.0	11.2	16.4



(END OF REPORT)