

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: P580220

Luminaire Tested: **HVSL12-4-LD4-2STD-30-UNV-O-EDD**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580220
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-LD4-2STD-30-UNV-O-EDD
Description: 4 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 3000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

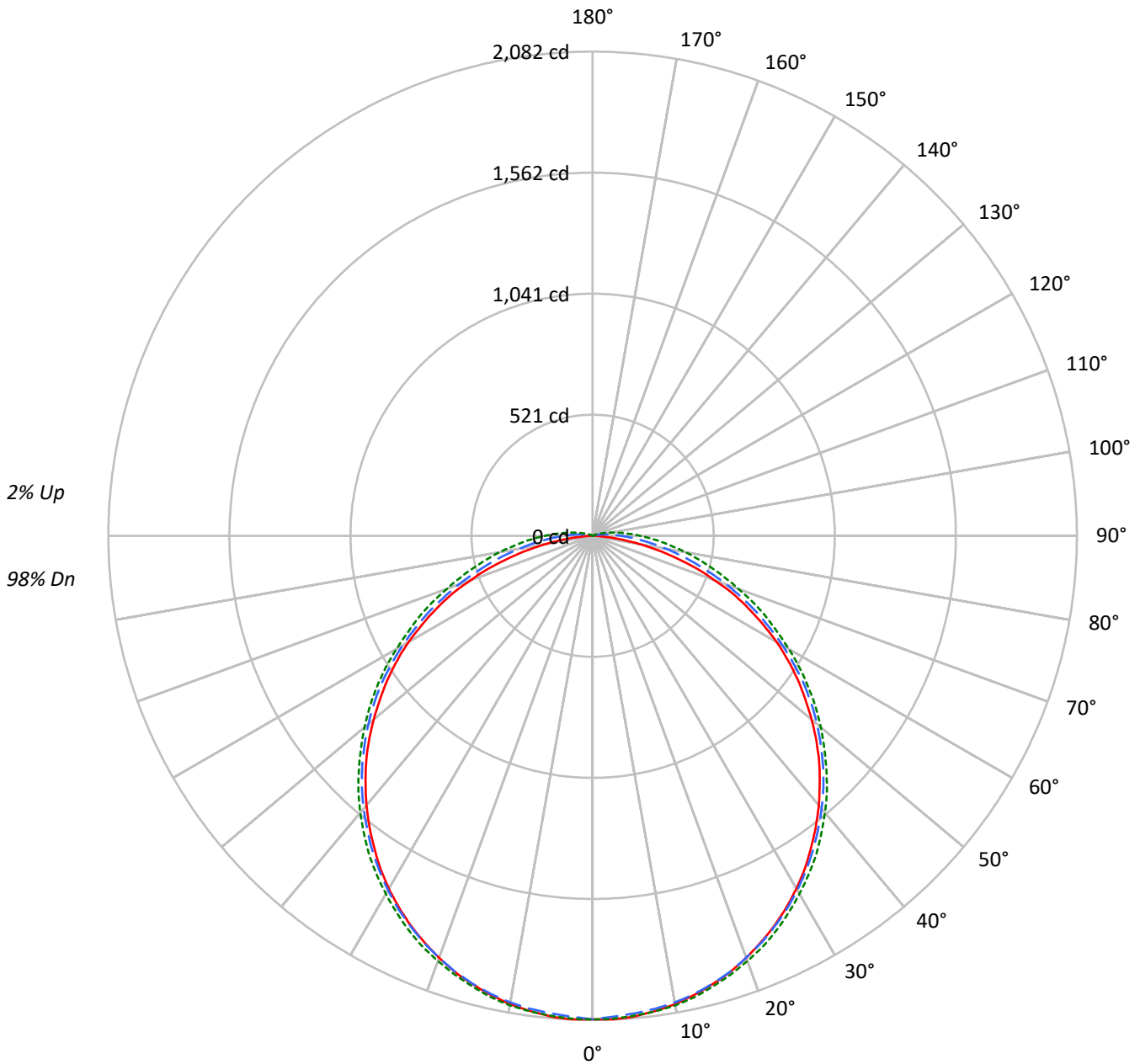
Lumens per Lamp: N/A
Luminaire Lumens: 6287.1 lumens
Efficiency: N/A
Efficacy: 90.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 69.2
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

TEST NUMBER: P580220

CATALOG NUMBER: HVSL12-4-LD4-2STD-30-UNV-O-EDD

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°	5596	5596	5596
5°	5584	5498	5515
10°	5547	5427	5443
15°	5499	5344	5347
20°	5448	5248	5253
25°	5387	5148	5156
30°	5316	5039	5041
35°	5226	4918	4927
40°	5133	4789	4789
45°	5032	4647	4637
50°	4901	4479	4472
55°	4760	4294	4287
60°	4591	4044	4065
65°	4318	3761	3851
70°	3924	3424	3598
75°	3365	3052	3387
80°	2532	2698	3229
85°	1353	2363	3141



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.8	3.1
10°-20°	564.4	9.0
20°-30°	856.4	13.6
30°-40°	1035.6	16.5
40°-50°	1080.5	17.2
50°-60°	987.9	15.7
60°-70°	770.1	12.2
70°-80°	481.8	7.7
80°-90°	218.8	3.5
90°-100°	73.3	1.2
100°-110°	18.4	0.3
110°-120°	2.9	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°	1617.6	25.7
0°-40°	2653.2	42.2
0°-60°	4721.6	75.1
0°-90°	6192.4	98.5
90°-120°	94.7	1.5
90°-150°	94.7	1.5
90°-180°	95.0	1.5
0°-180°	6287.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2079	2079	2079	2079	2079	
5°	2075	2071	2062	2072	2072	197
15°	1996	2000	1994	2005	2005	563
25°	1850	1851	1853	1869	1872	852
35°	1637	1645	1651	1668	1675	1025
45°	1377	1390	1401	1415	1422	1061
55°	1075	1088	1108	1124	1131	960
65°	739	752	777	808	821	731
75°	374	397	455	509	528	399
85°	65	120	205	272	296	82
90°	0	45	121	182	204	3
95°	0	12	63	114	131	0
105°	1	2	10	30	41	1
115°	2	2	2	5	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



TEST NUMBER: P580220

CATALOG NUMBER: HVSL12-4-LD4-2STD-30-UNV-O-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2079.4	2079.4	2079.4	2079.4	2079.4
2.5°	2081.8	2078.9	2069.6	2078.9	2078.4
5°	2074.9	2071.0	2061.7	2071.5	2071.5
7.5°	2061.2	2059.8	2051.4	2062.7	2062.7
10°	2045.0	2044.6	2037.7	2049.9	2050.4
12.5°	2022.5	2024.5	2018.1	2029.9	2031.3
15°	1996.0	1999.5	1994.1	2005.3	2004.9
17.5°	1967.1	1969.1	1965.1	1977.9	1977.4
20°	1931.3	1933.8	1930.8	1944.1	1945.5
22.5°	1891.6	1895.1	1894.6	1908.3	1912.2
25°	1849.5	1850.9	1852.9	1868.6	1871.5
27.5°	1802.9	1805.3	1808.8	1823.0	1825.9
30°	1751.9	1755.8	1759.8	1774.5	1778.4
32.5°	1698.0	1701.9	1706.8	1725.9	1727.9
35°	1637.2	1644.6	1651.4	1668.1	1675.0
37.5°	1576.4	1585.7	1592.1	1609.8	1615.2
40°	1512.2	1521.5	1531.8	1550.5	1553.9
42.5°	1445.1	1455.8	1468.1	1484.8	1490.6
45°	1377.4	1389.7	1400.9	1414.7	1421.5
47.5°	1304.4	1316.6	1330.4	1346.0	1350.5
50°	1228.9	1243.1	1257.8	1272.5	1280.4
52.5°	1151.4	1168.6	1185.3	1201.0	1208.3
55°	1075.0	1087.7	1107.8	1124.0	1131.3
57.5°	995.6	1006.3	1024.5	1051.0	1054.9
60°	914.7	924.5	943.1	964.7	973.5
62.5°	825.5	838.7	858.3	885.8	893.6
65°	738.7	751.5	777.4	808.3	821.1
67.5°	654.9	659.3	692.6	725.0	745.6
70°	555.9	572.5	611.3	651.0	666.7
72.5°	470.6	487.2	529.9	576.5	596.1
75°	374.0	397.0	454.9	509.3	528.4
77.5°	289.2	314.7	386.3	441.2	463.2
80°	202.0	241.7	319.6	381.4	405.4
82.5°	127.0	176.0	259.3	324.0	345.1
85°	64.7	119.6	205.4	271.6	295.6
87.5°	17.2	77.4	159.8	223.0	247.5
90°	0.5	44.6	121.1	181.9	203.9
92.5°	0.5	25.0	90.2	144.6	167.2
95°	0.5	11.8	62.7	113.7	131.4
97.5°	0.5	4.9	43.1	85.8	103.4
100°	0.5	2.5	27.5	62.3	77.4
102.5°	1.0	1.5	17.2	44.6	56.9
105°	1.0	1.5	10.3	30.4	40.7



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CATALOG NUMBER: HVSL12-4-LD4-2STD-30-UNV-O-EDD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.5	1.5	2.0	8.3	12.3
115°	1.5	1.5	2.0	5.4	7.8
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	1.5	5.9	20.6	27.9
110°	1.5	1.5	3.4	12.7	18.6



(END OF REPORT)