

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: P580156

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

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580156
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
Description: 2 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 3000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

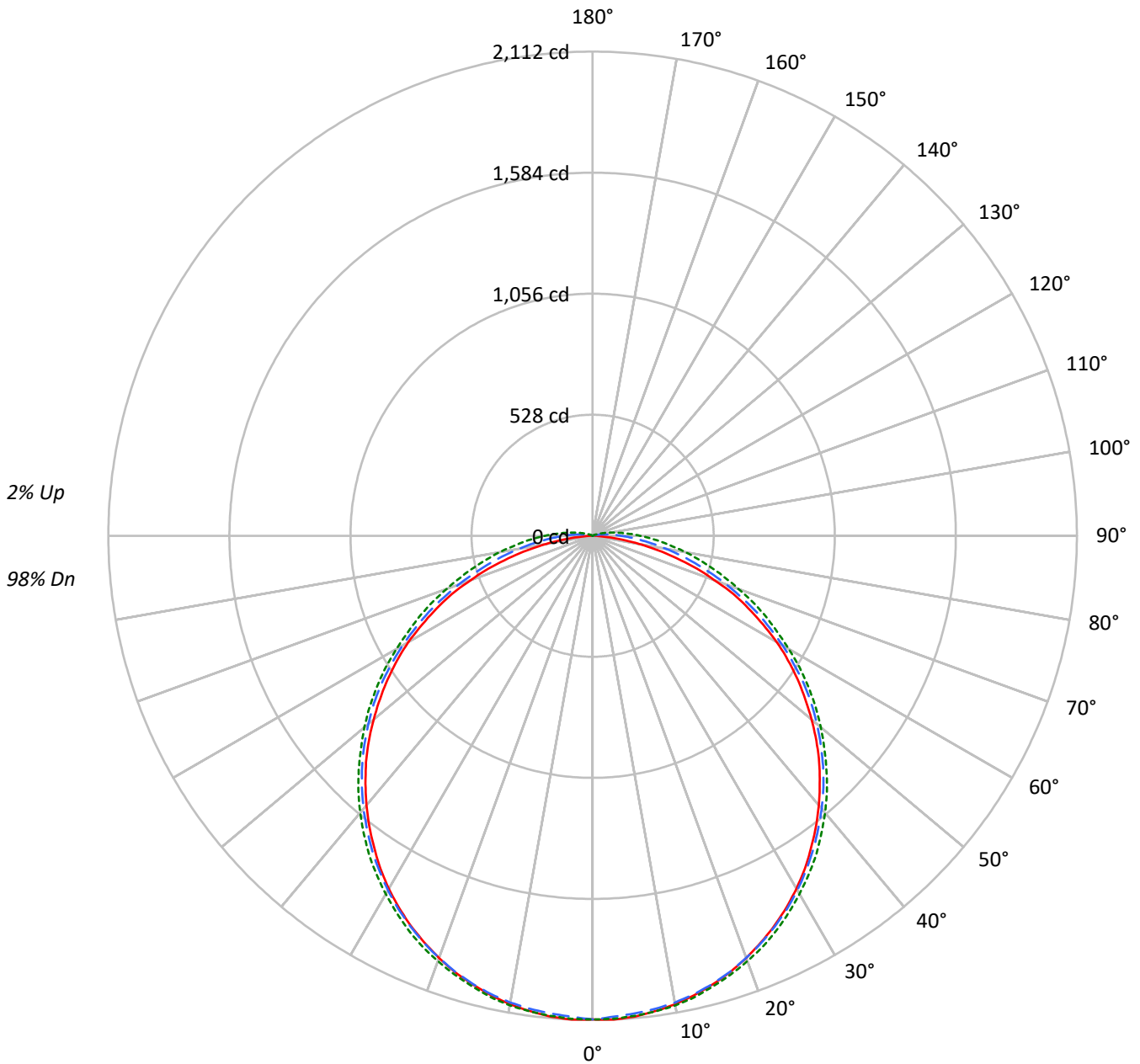
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6379.0 lumens
Efficiency: N/A
Efficacy: 95.6 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°	11355	11355	11355
5°	11292	11129	11192
10°	11176	10957	11045
15°	11038	10763	10850
20°	10893	10542	10659
25°	10726	10314	10463
30°	10540	10068	10229
35°	10312	9796	9999
40°	10075	9509	9717
45°	9819	9193	9409
50°	9497	8826	9074
55°	9146	8420	8700
60°	8730	7885	8250
65°	8097	7283	7815
70°	7221	6568	7300
75°	6019	5782	6874
80°	4312	5019	6553
85°	2078	4260	6374



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.7	3.1
10°-20°	572.7	9.0
20°-30°	869.0	13.6
30°-40°	1050.7	16.5
40°-50°	1096.3	17.2
50°-60°	1002.4	15.7
60°-70°	781.4	12.2
70°-80°	488.8	7.7
80°-90°	222.0	3.5
90°-100°	74.4	1.2
100°-110°	18.7	0.3
110°-120°	3.0	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°	1641.3	25.7
0°-40°	2692.0	42.2
0°-60°	4790.7	75.1
0°-90°	6282.9	98.5
90°-120°	96.1	1.5
90°-150°	96.1	1.5
90°-180°	96.0	1.5
0°-180°	6379.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2110	2110	2110	2110	2110	
5°	2105	2101	2092	2102	2102	200
15°	2025	2029	2023	2035	2034	572
25°	1876	1878	1880	1896	1899	865
35°	1661	1669	1676	1692	1700	1040
45°	1398	1410	1421	1435	1442	1077
55°	1091	1104	1124	1140	1148	974
65°	750	762	789	820	833	742
75°	380	403	462	517	536	405
85°	66	121	208	276	300	83
90°	0	45	123	184	207	3
95°	0	12	64	115	133	0
105°	1	2	10	31	41	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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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2109.8	2109.8	2109.8	2109.8	2109.8
2.5°	2112.3	2109.3	2099.8	2109.3	2108.8
5°	2105.3	2101.3	2091.9	2101.8	2101.8
7.5°	2091.4	2089.9	2081.4	2092.9	2092.9
10°	2075.0	2074.5	2067.5	2079.9	2080.4
12.5°	2052.1	2054.1	2047.6	2059.6	2061.0
15°	2025.2	2028.7	2023.2	2034.7	2034.2
17.5°	1995.9	1997.9	1993.9	2006.8	2006.3
20°	1959.6	1962.1	1959.1	1972.5	1974.0
22.5°	1919.3	1922.8	1922.3	1936.2	1940.2
25°	1876.5	1878.0	1880.0	1895.9	1898.9
27.5°	1829.3	1831.8	1835.2	1849.7	1852.7
30°	1777.6	1781.5	1785.5	1800.4	1804.4
32.5°	1722.8	1726.8	1731.8	1751.2	1753.2
35°	1661.2	1668.6	1675.6	1692.5	1699.5
37.5°	1599.5	1608.9	1615.4	1633.3	1638.8
40°	1534.3	1543.8	1554.2	1573.1	1576.6
42.5°	1466.2	1477.1	1489.6	1506.5	1512.5
45°	1397.6	1410.0	1421.4	1435.4	1442.3
47.5°	1323.5	1335.9	1349.8	1365.7	1370.2
50°	1246.9	1261.3	1276.2	1291.1	1299.1
52.5°	1168.3	1185.7	1202.6	1218.5	1226.0
55°	1090.7	1103.6	1124.0	1140.4	1147.9
57.5°	1010.1	1021.1	1039.5	1066.3	1070.3
60°	928.1	938.0	956.9	978.8	987.8
62.5°	837.5	851.0	870.9	898.7	906.7
65°	749.5	762.4	788.8	820.1	833.1
67.5°	664.5	668.9	702.8	735.6	756.5
70°	564.0	580.9	620.2	660.5	676.4
72.5°	477.5	494.4	537.6	584.9	604.8
75°	379.5	402.9	461.5	516.8	536.2
77.5°	293.4	319.3	391.9	447.6	470.0
80°	204.9	245.2	324.3	386.9	411.3
82.5°	128.8	178.6	263.1	328.8	350.1
85°	65.7	121.4	208.4	275.5	299.9
87.5°	17.4	78.6	162.1	226.3	251.2
90°	0.5	45.3	122.8	184.5	206.9
92.5°	0.5	25.4	91.5	146.7	169.6
95°	0.5	11.9	63.7	115.4	133.3
97.5°	0.5	5.0	43.8	87.0	104.9
100°	0.5	2.5	27.9	63.2	78.6
102.5°	1.0	1.5	17.4	45.3	57.7
105°	1.0	1.5	10.4	30.8	41.3



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CATALOG NUMBER: HVSL12-2-LD4-3HI-30-UNV-O-EDD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.5	1.5	2.0	8.5	12.4
115°	1.5	1.5	2.0	5.5	8.0
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	6.0	20.9	28.3
110°	1.5	1.5	3.5	12.9	18.9



(END OF REPORT)