

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: P580225

Luminaire Tested: **HVSL12-4-LD4-2STD-50-UNV-O-EDD-90**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580225
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-50-UNV-O-EDD-90
Description: 4 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 5000K, 90 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

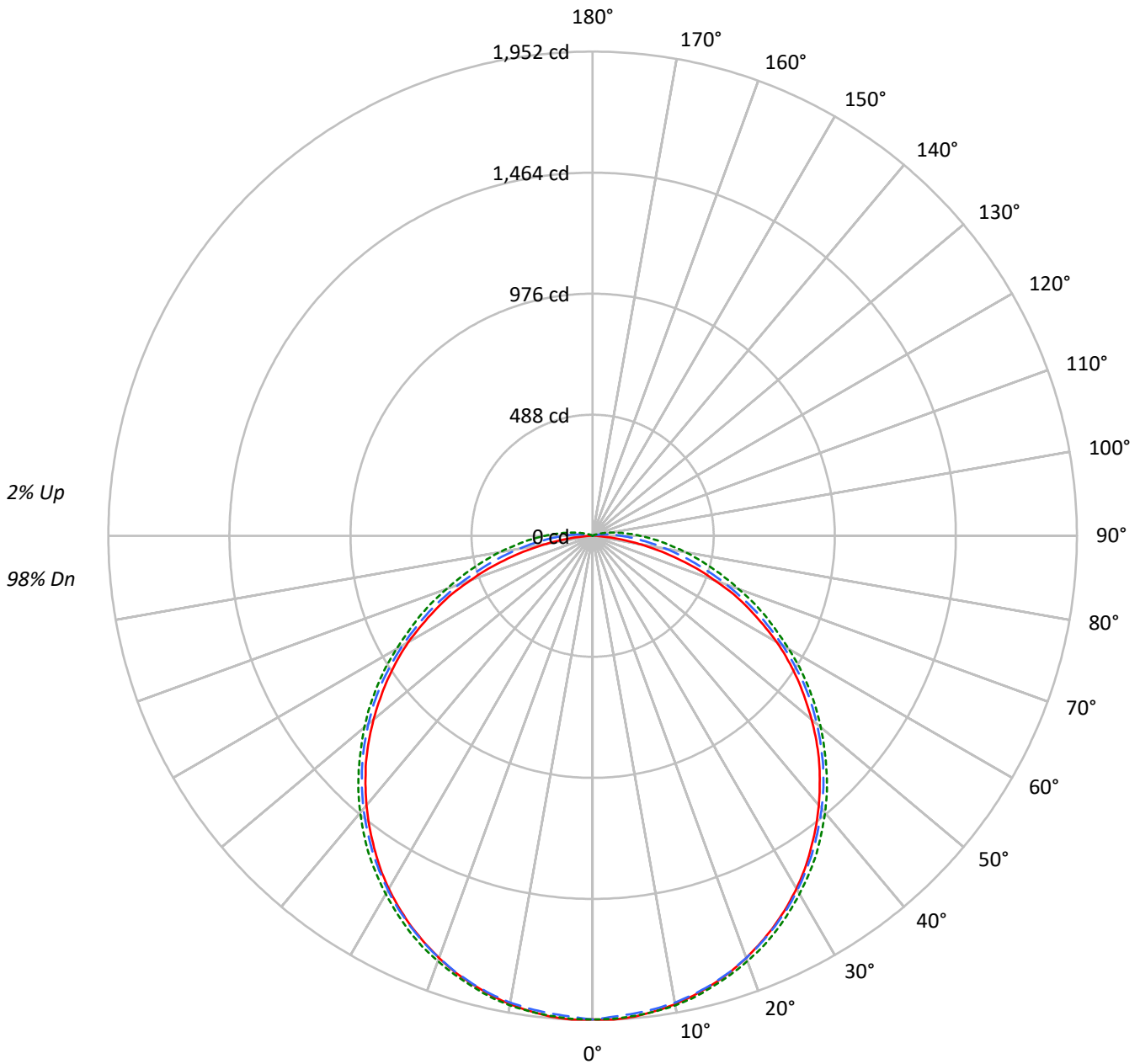
Lumens per Lamp: N/A
Luminaire Lumens: 5896.0 lumens
Efficiency: N/A
Efficacy: 85.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.17')
CIE Type: Direct

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

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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°	5247	5247	5247
5°	5237	5156	5172
10°	5202	5090	5104
15°	5157	5012	5014
20°	5109	4922	4926
25°	5052	4828	4835
30°	4985	4726	4727
35°	4901	4612	4621
40°	4814	4491	4491
45°	4719	4358	4348
50°	4597	4201	4194
55°	4464	4027	4021
60°	4306	3792	3813
65°	4049	3528	3612
70°	3680	3210	3374
75°	3155	2862	3177
80°	2374	2530	3029
85°	1269	2215	2946



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.5	3.1
10°-20°	529.3	9.0
20°-30°	803.2	13.6
30°-40°	971.2	16.5
40°-50°	1013.3	17.2
50°-60°	926.5	15.7
60°-70°	722.2	12.2
70°-80°	451.8	7.7
80°-90°	205.2	3.5
90°-100°	68.8	1.2
100°-110°	17.3	0.3
110°-120°	2.7	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°	1517.0	25.7
0°-40°	2488.2	42.2
0°-60°	4428.0	75.1
0°-90°	5807.2	98.5
90°-120°	88.8	1.5
90°-150°	88.8	1.5
90°-180°	89.0	1.5
0°-180°	5896.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1950	1950	1950	1950	1950	
5°	1946	1942	1934	1943	1943	185
15°	1872	1875	1870	1881	1880	528
25°	1734	1736	1738	1752	1755	799
35°	1535	1542	1549	1564	1571	961
45°	1292	1303	1314	1327	1333	995
55°	1008	1020	1039	1054	1061	901
65°	693	705	729	758	770	685
75°	351	372	427	478	496	374
85°	61	112	193	255	277	77
90°	0	42	114	170	191	2
95°	0	11	59	107	123	0
105°	1	1	10	28	38	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°	1950.0	1950.0	1950.0	1950.0	1950.0
2.5°	1952.3	1949.6	1940.8	1949.6	1949.1
5°	1945.9	1942.2	1933.5	1942.7	1942.7
7.5°	1933.0	1931.7	1923.8	1934.4	1934.4
10°	1917.9	1917.4	1911.0	1922.5	1922.9
12.5°	1896.7	1898.6	1892.6	1903.6	1905.0
15°	1871.9	1875.1	1870.1	1880.6	1880.2
17.5°	1844.8	1846.6	1842.9	1854.9	1854.4
20°	1811.2	1813.5	1810.8	1823.2	1824.5
22.5°	1774.0	1777.2	1776.7	1789.6	1793.3
25°	1734.4	1735.8	1737.7	1752.4	1755.1
27.5°	1690.8	1693.1	1696.3	1709.6	1712.4
30°	1643.0	1646.6	1650.3	1664.1	1667.8
32.5°	1592.4	1596.1	1600.7	1618.6	1620.4
35°	1535.4	1542.3	1548.7	1564.4	1570.8
37.5°	1478.4	1487.1	1493.1	1509.6	1514.7
40°	1418.2	1426.9	1436.6	1454.0	1457.2
42.5°	1355.2	1365.3	1376.8	1392.4	1397.9
45°	1291.8	1303.2	1313.8	1326.7	1333.1
47.5°	1223.3	1234.7	1247.6	1262.3	1266.5
50°	1152.5	1165.8	1179.6	1193.4	1200.7
52.5°	1079.8	1095.9	1111.6	1126.3	1133.2
55°	1008.1	1020.1	1038.9	1054.1	1061.0
57.5°	933.6	943.8	960.8	985.6	989.3
60°	857.8	867.0	884.5	904.7	913.0
62.5°	774.1	786.5	804.9	830.7	838.0
65°	692.8	704.7	729.1	758.0	770.0
67.5°	614.2	618.3	649.6	679.9	699.2
70°	521.3	536.9	573.2	610.5	625.2
72.5°	441.3	456.9	496.9	540.6	559.0
75°	350.7	372.4	426.6	477.6	495.6
77.5°	271.2	295.1	362.2	413.7	434.4
80°	189.4	226.6	299.7	357.6	380.2
82.5°	119.1	165.0	243.2	303.9	323.6
85°	60.7	112.2	192.6	254.7	277.2
87.5°	16.1	72.6	149.9	209.2	232.1
90°	0.5	41.8	113.5	170.5	191.2
92.5°	0.5	23.4	84.6	135.6	156.8
95°	0.5	11.0	58.8	106.7	123.2
97.5°	0.5	4.6	40.5	80.4	97.0
100°	0.5	2.3	25.7	58.4	72.6
102.5°	0.9	1.4	16.1	41.8	53.3
105°	0.9	1.4	9.7	28.5	38.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.4	1.4	1.8	7.8	11.5
115°	1.4	1.4	1.8	5.1	7.4
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	1.4	5.5	19.3	26.2
110°	1.4	1.4	3.2	12.0	17.5



(END OF REPORT)