

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: P580210

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

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580210
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-LD4-2HI-50-UNV-O-EDD
Description: 4 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 5000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

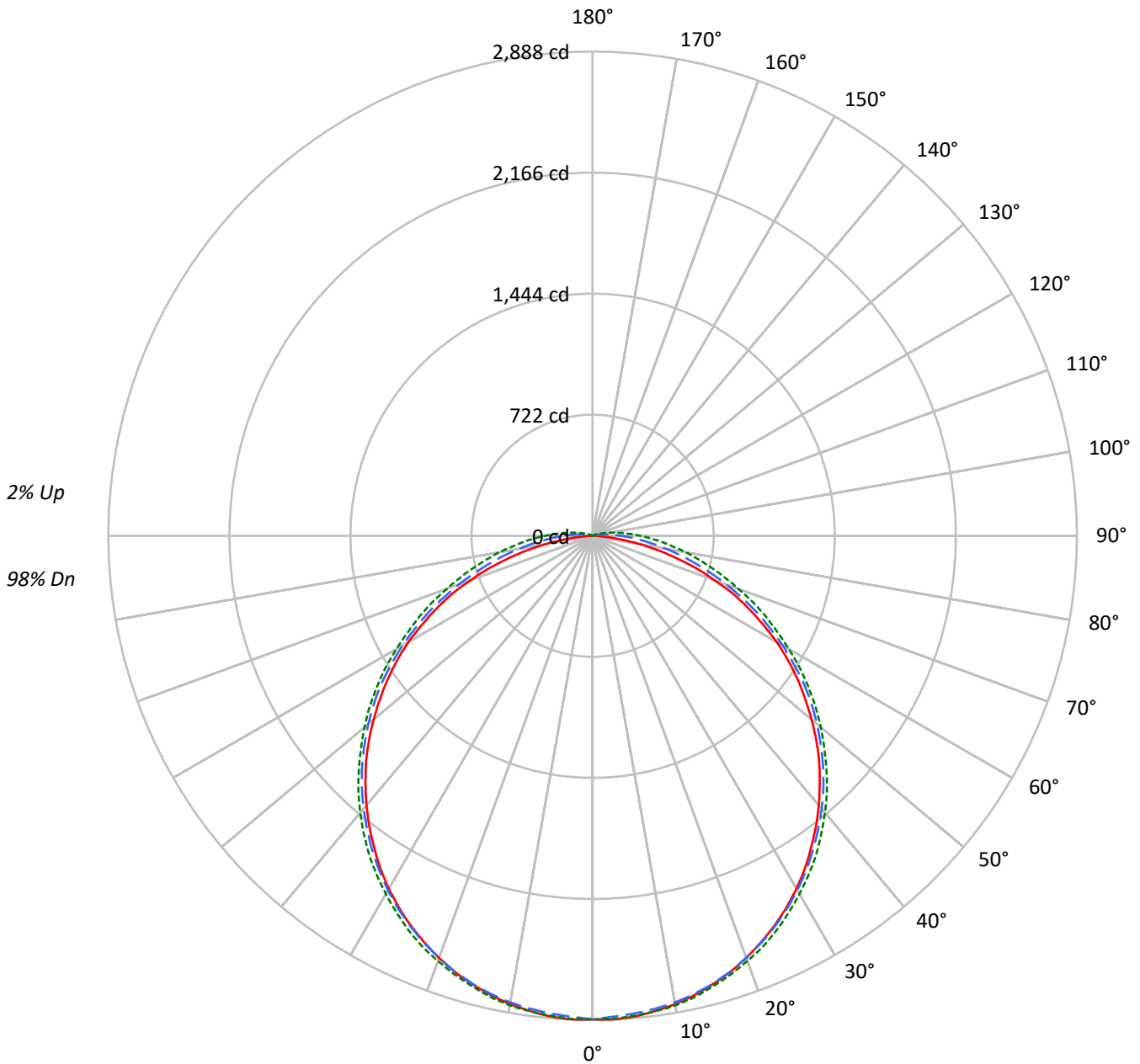
Lumens per Lamp: N/A
Luminaire Lumens: 8722.0 lumens
Efficiency: N/A
Efficacy: 95.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 91.2
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					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°	7763	7763	7763
5°	7748	7628	7651
10°	7696	7529	7551
15°	7629	7414	7417
20°	7558	7280	7287
25°	7473	7142	7153
30°	7374	6991	6993
35°	7250	6822	6836
40°	7121	6644	6643
45°	6981	6446	6433
50°	6799	6214	6204
55°	6604	5957	5947
60°	6369	5610	5640
65°	5990	5218	5343
70°	5444	4749	4991
75°	4669	4234	4699
80°	3512	3743	4480
85°	1878	3277	4358



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.0	3.1
10°-20°	783.0	9.0
20°-30°	1188.1	13.6
30°-40°	1436.6	16.5
40°-50°	1499.0	17.2
50°-60°	1370.6	15.7
60°-70°	1068.4	12.2
70°-80°	668.4	7.7
80°-90°	303.5	3.5
90°-100°	101.7	1.2
100°-110°	25.5	0.3
110°-120°	4.0	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°	2244.1	25.7
0°-40°	3680.8	42.2
0°-60°	6550.4	75.1
0°-90°	8590.7	98.5
90°-120°	131.3	1.5
90°-150°	131.3	1.5
90°-180°	131.0	1.5
0°-180°	8722.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2885	2885	2885	2885	2885	
5°	2879	2873	2860	2874	2874	273
15°	2769	2774	2766	2782	2781	782
25°	2566	2568	2570	2592	2596	1182
35°	2271	2282	2291	2314	2324	1422
45°	1911	1928	1944	1963	1972	1472
55°	1491	1509	1537	1559	1570	1332
65°	1025	1042	1078	1121	1139	1014
75°	519	551	631	707	733	553
85°	90	166	285	377	410	114
90°	1	62	168	252	283	4
95°	1	16	87	158	182	1
105°	1	2	14	42	56	1
115°	2	2	3	8	11	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°	2884.7	2884.7	2884.7	2884.7	2884.7
2.5°	2888.1	2884.0	2871.1	2884.0	2883.4
5°	2878.6	2873.2	2860.2	2873.8	2873.8
7.5°	2859.5	2857.5	2845.9	2861.6	2861.6
10°	2837.1	2836.4	2826.9	2843.9	2844.6
12.5°	2805.8	2808.5	2799.7	2816.0	2818.1
15°	2769.1	2773.9	2766.4	2782.0	2781.3
17.5°	2729.0	2731.7	2726.3	2743.9	2743.3
20°	2679.3	2682.7	2678.7	2697.0	2699.1
22.5°	2624.3	2629.0	2628.3	2647.4	2652.8
25°	2565.8	2567.8	2570.5	2592.3	2596.4
27.5°	2501.2	2504.6	2509.3	2529.1	2533.1
30°	2430.4	2435.9	2441.3	2461.7	2467.2
32.5°	2355.6	2361.1	2367.9	2394.4	2397.1
35°	2271.3	2281.5	2291.0	2314.2	2323.7
37.5°	2187.0	2199.9	2208.8	2233.2	2240.7
40°	2097.9	2110.8	2125.1	2151.0	2155.7
42.5°	2004.7	2019.7	2036.7	2059.8	2068.0
45°	1910.9	1927.9	1943.5	1962.6	1972.1
47.5°	1809.6	1826.6	1845.6	1867.4	1873.5
50°	1704.8	1724.6	1745.0	1765.4	1776.3
52.5°	1597.4	1621.2	1644.3	1666.1	1676.3
55°	1491.3	1509.0	1536.9	1559.3	1569.5
57.5°	1381.2	1396.1	1421.3	1458.0	1463.4
60°	1268.9	1282.5	1308.4	1338.3	1350.6
62.5°	1145.2	1163.5	1190.7	1228.8	1239.7
65°	1024.8	1042.5	1078.5	1121.4	1139.1
67.5°	908.5	914.6	960.9	1005.8	1034.3
70°	771.2	794.3	848.0	903.1	924.8
72.5°	652.8	676.0	735.1	799.7	826.9
75°	518.9	550.8	631.1	706.6	733.1
77.5°	401.2	436.6	535.9	612.0	642.6
80°	280.2	335.3	443.4	529.1	562.4
82.5°	176.1	244.1	359.7	449.5	478.7
85°	89.8	165.9	284.9	376.7	410.1
87.5°	23.8	107.4	221.7	309.4	343.4
90°	0.7	61.9	168.0	252.3	282.9
92.5°	0.7	34.7	125.1	200.6	231.9
95°	0.7	16.3	87.0	157.8	182.2
97.5°	0.7	6.8	59.8	119.0	143.5
100°	0.7	3.4	38.1	86.4	107.4
102.5°	1.4	2.0	23.8	61.9	78.9
105°	1.4	2.0	14.3	42.2	56.4



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CATALOG NUMBER: HVSL12-4-LD4-2HI-50-UNV-O-EDD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.0	2.0	2.7	11.6	17.0
115°	2.0	2.0	2.7	7.5	10.9
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°	1.4	2.0	8.2	28.6	38.8
110°	2.0	2.0	4.8	17.7	25.8



(END OF REPORT)