

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: P580252

Luminaire Tested: **HVSL12-8-LD4-1HI-30-UNV-O-EDD**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580252
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: HVSL12-8-LD4-1HI-30-UNV-O-EDD
Description: 8 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 3000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

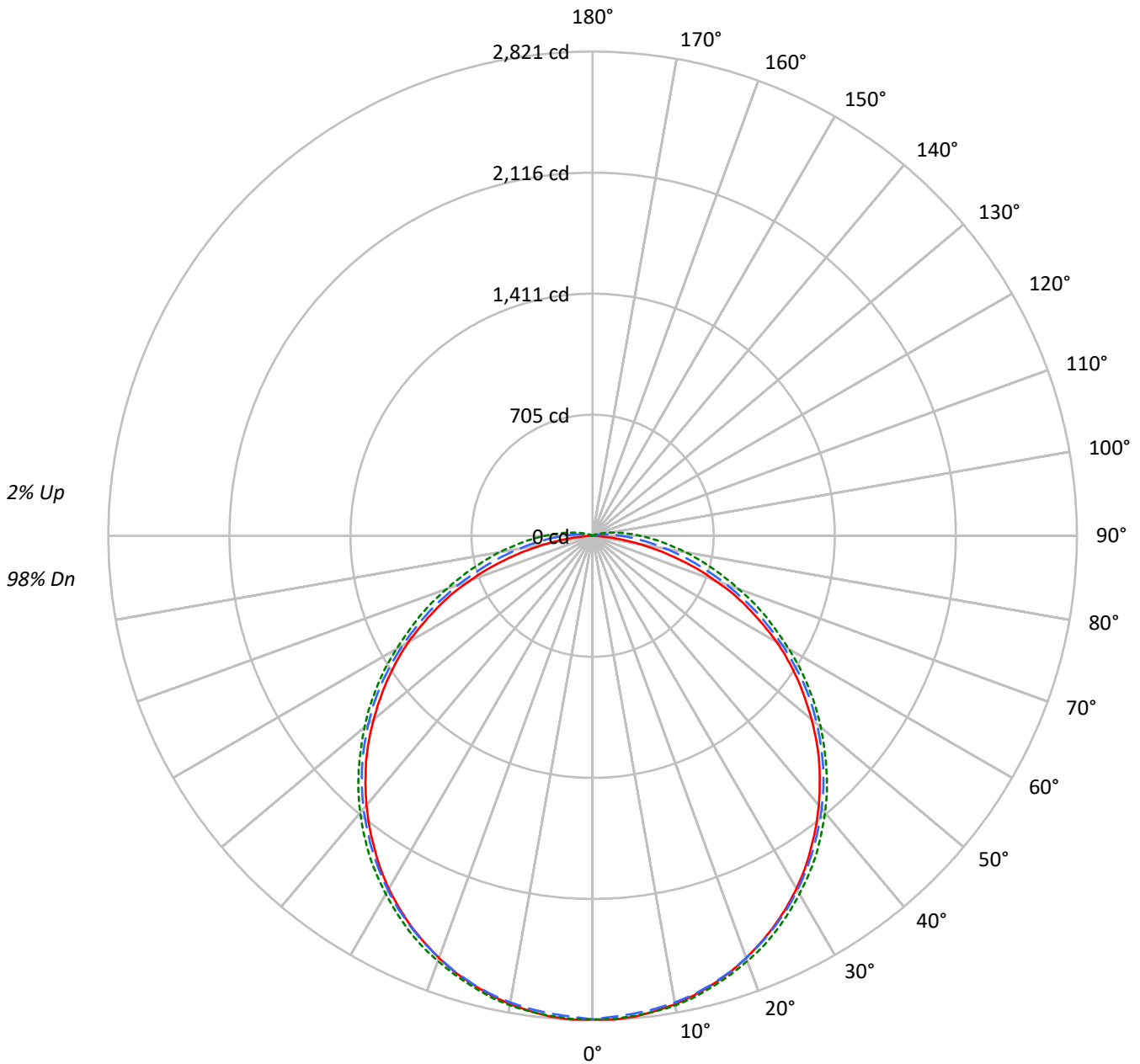
Lumens per Lamp: N/A
Luminaire Lumens: 8520.1 lumens
Efficiency: N/A
Efficacy: 93.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 8' x H: 0.17')
CIE Type: Direct

Input Watts (W): 91
Input Voltage (V): NR
Input Current (A_{in}): 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°	3791	3791	3791
5°	3791	3730	3737
10°	3773	3687	3688
15°	3747	3635	3623
20°	3719	3574	3559
25°	3685	3511	3494
30°	3645	3442	3416
35°	3592	3364	3339
40°	3538	3281	3245
45°	3479	3190	3142
50°	3402	3081	3030
55°	3319	2961	2905
60°	3220	2797	2755
65°	3051	2612	2610
70°	2803	2389	2438
75°	2445	2144	2295
80°	1897	1915	2188
85°	1093	1708	2129



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	266.7	3.1
10°-20°	764.9	9.0
20°-30°	1160.6	13.6
30°-40°	1403.4	16.5
40°-50°	1464.3	17.2
50°-60°	1338.8	15.7
60°-70°	1043.7	12.2
70°-80°	652.9	7.7
80°-90°	296.5	3.5
90°-100°	99.4	1.2
100°-110°	25.0	0.3
110°-120°	3.9	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°	2192.2	25.7
0°-40°	3595.5	42.2
0°-60°	6398.7	75.1
0°-90°	8391.8	98.5
90°-120°	128.3	1.5
90°-150°	128.3	1.5
90°-180°	128.0	1.5
0°-180°	8520.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2818	2818	2818	2818	2818	
5°	2812	2807	2794	2807	2807	267
15°	2705	2710	2702	2718	2717	764
25°	2506	2508	2511	2532	2536	1155
35°	2219	2229	2238	2261	2270	1389
45°	1867	1883	1898	1917	1926	1438
55°	1457	1474	1501	1523	1533	1301
65°	1001	1018	1054	1095	1113	991
75°	507	538	616	690	716	540
85°	88	162	278	368	401	111
90°	1	60	164	246	276	3
95°	1	16	85	154	178	1
105°	1	2	14	41	55	1
115°	2	2	3	7	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°	2817.9	2817.9	2817.9	2817.9	2817.9
2.5°	2821.2	2817.2	2804.6	2817.2	2816.6
5°	2811.9	2806.6	2794.0	2807.3	2807.3
7.5°	2793.3	2791.3	2780.0	2795.3	2795.3
10°	2771.4	2770.7	2761.4	2778.0	2778.7
12.5°	2740.8	2743.5	2734.9	2750.8	2752.8
15°	2705.0	2709.6	2702.3	2717.6	2716.9
17.5°	2665.8	2668.4	2663.1	2680.4	2679.7
20°	2617.3	2620.6	2616.6	2634.6	2636.6
22.5°	2563.5	2568.1	2567.5	2586.1	2591.4
25°	2506.4	2508.3	2511.0	2532.3	2536.2
27.5°	2443.2	2446.6	2451.2	2470.5	2474.5
30°	2374.2	2379.5	2384.8	2404.7	2410.0
32.5°	2301.1	2306.4	2313.0	2339.0	2341.6
35°	2218.7	2228.7	2238.0	2260.6	2269.9
37.5°	2136.3	2149.0	2157.6	2181.5	2188.8
40°	2049.3	2061.9	2075.9	2101.1	2105.8
42.5°	1958.3	1972.9	1989.5	2012.1	2020.1
45°	1866.6	1883.3	1898.5	1917.1	1926.4
47.5°	1767.7	1784.3	1802.9	1824.1	1830.1
50°	1665.4	1684.6	1704.6	1724.5	1735.1
52.5°	1560.4	1583.7	1606.2	1627.5	1637.5
55°	1456.8	1474.1	1501.3	1523.2	1533.2
57.5°	1349.2	1363.8	1388.4	1424.2	1429.5
60°	1239.6	1252.8	1278.1	1307.3	1319.3
62.5°	1118.7	1136.6	1163.2	1200.4	1211.0
65°	1001.1	1018.4	1053.6	1095.4	1112.7
67.5°	887.5	893.5	938.6	982.5	1010.4
70°	753.3	775.9	828.4	882.2	903.4
72.5°	637.7	660.3	718.1	781.2	807.8
75°	506.9	538.1	616.5	690.2	716.1
77.5°	391.9	426.5	523.5	597.9	627.8
80°	273.7	327.5	433.1	516.8	549.4
82.5°	172.1	238.5	351.4	439.1	467.7
85°	87.7	162.1	278.3	368.0	400.6
87.5°	23.3	105.0	216.6	302.3	335.5
90°	0.7	60.5	164.1	246.5	276.3
92.5°	0.7	33.9	122.2	196.0	226.5
95°	0.7	15.9	85.0	154.1	178.0
97.5°	0.7	6.6	58.5	116.3	140.2
100°	0.7	3.3	37.2	84.4	105.0
102.5°	1.3	2.0	23.3	60.5	77.1
105°	1.3	2.0	14.0	41.2	55.1



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CATALOG NUMBER: HVSL12-8-LD4-1HI-30-UNV-O-EDD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.0	2.0	2.7	11.3	16.6
115°	2.0	2.0	2.7	7.3	10.6
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°	1.3	2.0	8.0	27.9	37.9
110°	2.0	2.0	4.7	17.3	25.2



(END OF REPORT)