

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: P580293

Luminaire Tested: **HVSL12-8-LD4-2STD-35-UNV-O-EDD-90**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580293
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-LD4-2STD-35-UNV-O-EDD-90
Description: 8 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 3500K, 90 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

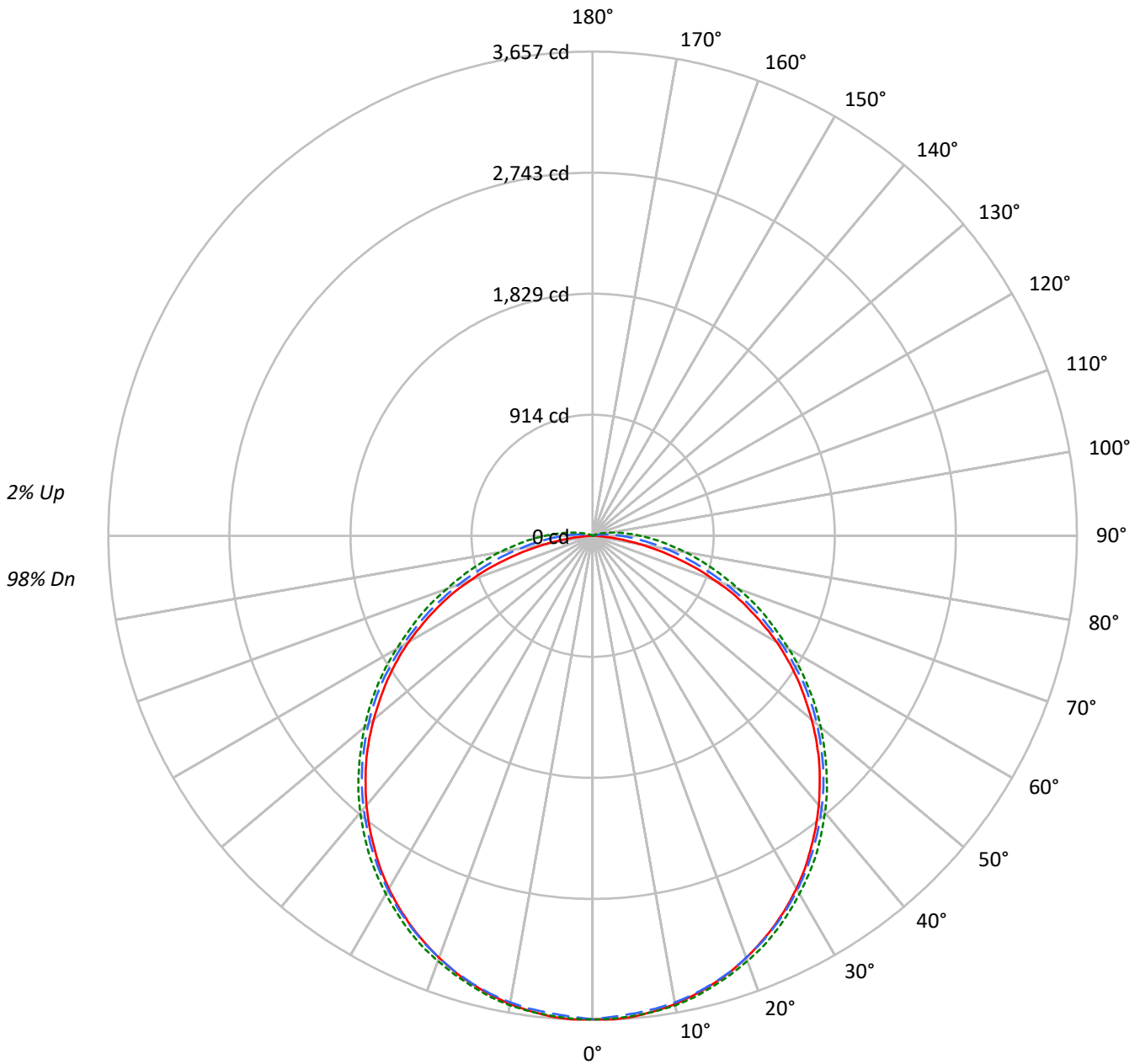
Lumens per Lamp: N/A
Luminaire Lumens: 11043.0 lumens
Efficiency: N/A
Efficacy: 79.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 8' x H: 0.17')
CIE Type: Direct

Input Watts (W): 138.4
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				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°	4914	4914	4914
5°	4914	4835	4844
10°	4890	4778	4780
15°	4857	4711	4696
20°	4821	4632	4613
25°	4776	4550	4528
30°	4724	4461	4427
35°	4656	4360	4327
40°	4585	4253	4206
45°	4510	4134	4072
50°	4409	3993	3927
55°	4301	3838	3765
60°	4173	3625	3570
65°	3954	3385	3382
70°	3633	3096	3160
75°	3169	2779	2975
80°	2458	2483	2836
85°	1418	2214	2759



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	345.6	3.1
10°-20°	991.4	9.0
20°-30°	1504.3	13.6
30°-40°	1818.9	16.5
40°-50°	1897.9	17.2
50°-60°	1735.3	15.7
60°-70°	1352.7	12.2
70°-80°	846.2	7.7
80°-90°	384.3	3.5
90°-100°	128.8	1.2
100°-110°	32.3	0.3
110°-120°	5.1	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°	2841.3	25.7
0°-40°	4660.3	42.2
0°-60°	8293.5	75.1
0°-90°	10876.8	98.5
90°-120°	166.3	1.5
90°-150°	166.3	1.5
90°-180°	166.0	1.5
0°-180°	11043.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3652	3652	3652	3652	3652	
5°	3645	3638	3621	3639	3639	346
15°	3506	3512	3502	3522	3522	990
25°	3248	3251	3255	3282	3287	1497
35°	2876	2889	2901	2930	2942	1800
45°	2419	2441	2461	2485	2497	1864
55°	1888	1911	1946	1974	1987	1687
65°	1298	1320	1366	1420	1442	1284
75°	657	697	799	895	928	700
85°	114	210	361	477	519	144
90°	1	78	213	319	358	4
95°	1	21	110	200	231	1
105°	2	3	18	53	72	2
115°	3	3	3	10	14	2
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°	3652.4	3652.4	3652.4	3652.4	3652.4
2.5°	3656.7	3651.5	3635.1	3651.5	3650.6
5°	3644.6	3637.7	3621.4	3638.6	3638.6
7.5°	3620.5	3617.9	3603.3	3623.1	3623.1
10°	3592.1	3591.2	3579.2	3600.7	3601.6
12.5°	3552.5	3555.9	3544.7	3565.4	3568.0
15°	3506.0	3512.0	3502.5	3522.3	3521.5
17.5°	3455.2	3458.6	3451.7	3474.1	3473.3
20°	3392.3	3396.6	3391.5	3414.7	3417.3
22.5°	3322.6	3328.6	3327.8	3351.9	3358.8
25°	3248.5	3251.1	3254.6	3282.1	3287.3
27.5°	3166.8	3171.1	3177.1	3202.1	3207.2
30°	3077.2	3084.1	3091.0	3116.8	3123.7
32.5°	2982.5	2989.4	2998.0	3031.6	3035.0
35°	2875.7	2888.7	2900.7	2930.0	2942.0
37.5°	2769.0	2785.3	2796.5	2827.5	2837.0
40°	2656.2	2672.5	2690.6	2723.3	2729.4
42.5°	2538.2	2557.2	2578.7	2608.0	2618.3
45°	2419.4	2440.9	2460.7	2484.8	2496.9
47.5°	2291.1	2312.6	2336.8	2364.3	2372.1
50°	2158.5	2183.5	2209.3	2235.2	2248.9
52.5°	2022.5	2052.6	2081.9	2109.4	2122.4
55°	1888.2	1910.6	1945.9	1974.3	1987.2
57.5°	1748.7	1767.6	1799.5	1846.0	1852.9
60°	1606.6	1623.8	1656.6	1694.4	1709.9
62.5°	1449.9	1473.2	1507.6	1555.8	1569.6
65°	1297.5	1319.9	1365.5	1419.8	1442.2
67.5°	1150.3	1158.0	1216.6	1273.4	1309.6
70°	976.4	1005.6	1073.7	1143.4	1171.0
72.5°	826.6	855.8	930.7	1012.5	1047.0
75°	656.9	697.4	799.0	894.6	928.2
77.5°	508.0	552.8	678.5	774.9	813.6
80°	354.7	424.5	561.4	669.9	712.0
82.5°	223.0	309.1	455.5	569.1	606.1
85°	113.7	210.1	360.8	477.0	519.2
87.5°	30.1	136.0	280.7	391.8	434.8
90°	0.9	78.4	212.7	319.4	358.2
92.5°	0.9	43.9	158.4	254.0	293.6
95°	0.9	20.7	110.2	199.8	230.7
97.5°	0.9	8.6	75.8	150.7	181.7
100°	0.9	4.3	48.2	109.3	136.0
102.5°	1.7	2.6	30.1	78.4	99.9
105°	1.7	2.6	18.1	53.4	71.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.6	2.6	3.4	14.6	21.5
115°	2.6	2.6	3.4	9.5	13.8
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°	1.7	2.6	10.3	36.2	49.1
110°	2.6	2.6	6.0	22.4	32.7



(END OF REPORT)