

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: P580300

Luminaire Tested: **HVSL12-8-LD4-3HI-30-UNV-O-EDD**

Issue Date: 12/16/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P580300  
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-LD4-3HI-30-UNV-O-EDD  
Description: 8 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 3000K, 80 CRI LEDS  
Light Source: -  
Ballast/Driver: -

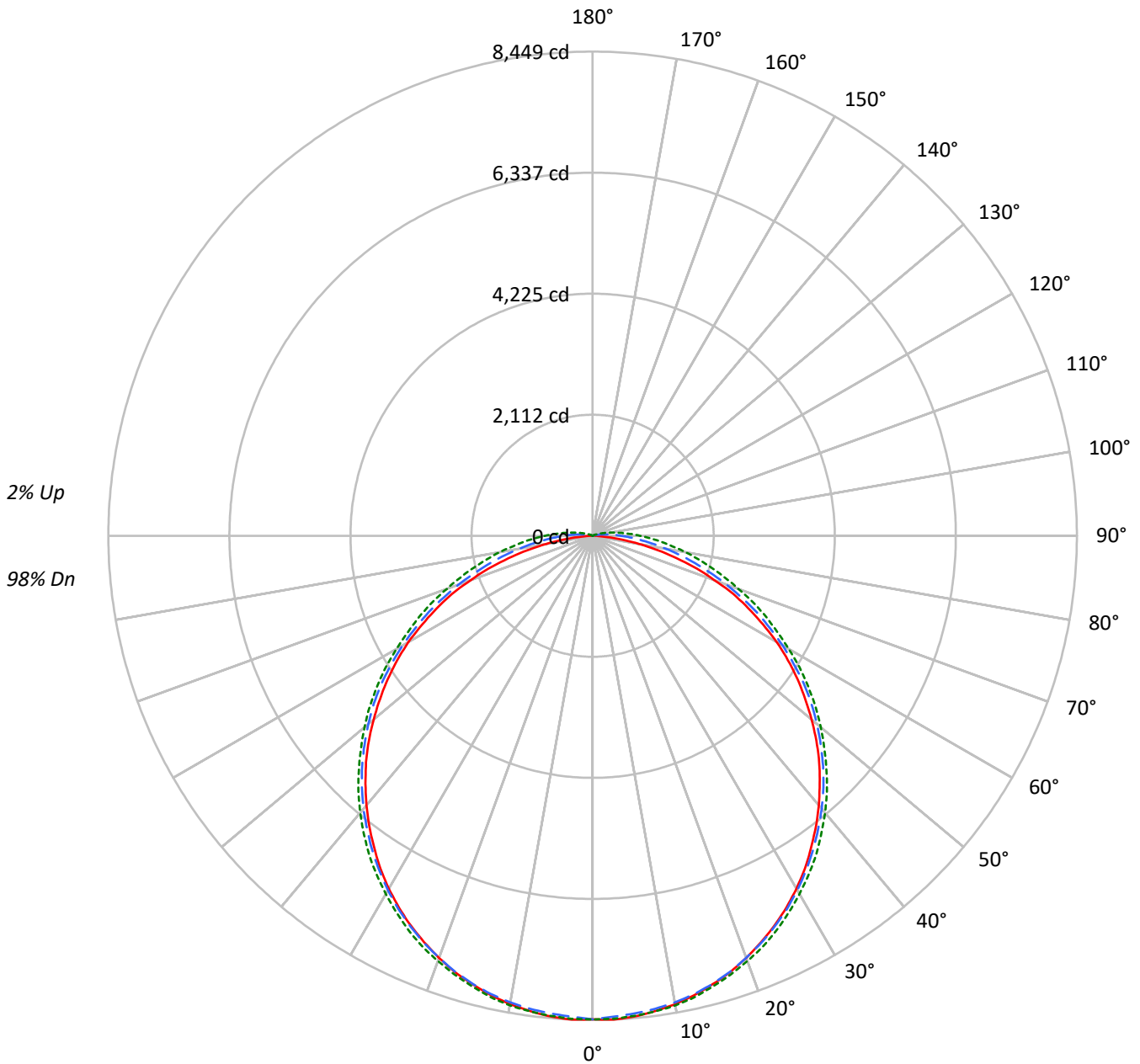
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25517.0 lumens  
Efficiency: N/A  
Efficacy: 95.7 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): 266.6  
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°	11355	11355	11355
5°	11354	11172	11192
10°	11299	11041	11045
15°	11222	10887	10850
20°	11139	10704	10659
25°	11037	10514	10463
30°	10916	10307	10229
35°	10758	10074	9999
40°	10595	9827	9718
45°	10421	9553	9410
50°	10187	9228	9075
55°	9939	8868	8700
60°	9642	8377	8250
65°	9137	7822	7815
70°	8395	7153	7300
75°	7322	6421	6873
80°	5680	5737	6553
85°	3274	5115	6375



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	798.6	3.1
10°-20°	2290.8	9.0
20°-30°	3476.0	13.6
30°-40°	4203.0	16.5
40°-50°	4385.5	17.2
50°-60°	4009.7	15.7
60°-70°	3125.8	12.2
70°-80°	1955.3	7.7
80°-90°	888.1	3.5
90°-100°	297.7	1.2
100°-110°	74.7	0.3
110°-120°	11.8	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°	6565.4	25.7
0°-40°	10768.5	42.2
0°-60°	19163.7	75.1
0°-90°	25132.8	98.5
90°-120°	384.2	1.5
90°-150°	384.2	1.5
90°-180°	384.0	1.5
0°-180°	25517.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	8440	8440	8440	8440	8440	
5°	8422	8406	8368	8408	8408	800
15°	8101	8115	8093	8139	8137	2287
25°	7506	7512	7520	7584	7596	3459
35°	6645	6675	6703	6770	6798	4159
45°	5590	5640	5686	5742	5770	4308
55°	4363	4415	4496	4562	4592	3898
65°	2998	3050	3155	3281	3332	2967
75°	1518	1612	1846	2067	2145	1618
85°	263	485	834	1102	1200	332
90°	2	181	491	738	828	10
95°	2	48	255	462	533	2
105°	4	6	42	123	165	4
115°	6	6	8	22	32	4
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



TEST NUMBER: P580300

CATALOG NUMBER: HVSL12-8-LD4-3HI-30-UNV-O-EDD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	8439.5	8439.5	8439.5	8439.5	8439.5
2.5°	8449.4	8437.5	8399.7	8437.5	8435.5
5°	8421.6	8405.7	8367.9	8407.7	8407.7
7.5°	8365.9	8359.9	8326.1	8371.8	8371.8
10°	8300.2	8298.2	8270.4	8320.1	8322.1
12.5°	8208.7	8216.7	8190.8	8238.5	8244.5
15°	8101.3	8115.2	8093.3	8139.1	8137.1
17.5°	7983.9	7991.8	7975.9	8027.7	8025.7
20°	7838.7	7848.6	7836.7	7890.4	7896.3
22.5°	7677.5	7691.4	7689.4	7745.1	7761.1
25°	7506.4	7512.4	7520.3	7584.0	7595.9
27.5°	7317.4	7327.3	7341.3	7399.0	7410.9
30°	7110.5	7126.4	7142.3	7202.0	7217.9
32.5°	6891.6	6907.6	6927.5	7005.0	7013.0
35°	6644.9	6674.8	6702.6	6770.3	6798.1
37.5°	6398.2	6436.1	6461.9	6533.5	6555.4
40°	6137.6	6175.4	6217.2	6292.8	6306.7
42.5°	5865.1	5908.8	5958.6	6026.2	6050.1
45°	5590.5	5640.2	5686.0	5741.7	5769.6
47.5°	5294.1	5343.8	5399.5	5463.2	5481.1
50°	4987.7	5045.4	5105.1	5164.8	5196.6
52.5°	4673.3	4743.0	4810.6	4874.3	4904.1
55°	4363.0	4414.7	4496.3	4561.9	4591.8
57.5°	4040.7	4084.5	4158.1	4265.5	4281.4
60°	3712.4	3752.2	3827.8	3915.3	3951.2
62.5°	3350.3	3404.0	3483.6	3595.0	3626.9
65°	2998.2	3049.9	3155.4	3280.7	3332.4
67.5°	2658.0	2675.9	2811.2	2942.5	3026.0
70°	2256.1	2323.7	2480.9	2642.1	2705.7
72.5°	1909.9	1977.6	2150.7	2339.7	2419.2
75°	1518.0	1611.5	1846.3	2067.1	2144.7
77.5°	1173.8	1277.3	1567.7	1790.6	1880.1
80°	819.7	980.8	1297.2	1547.8	1645.3
82.5°	515.3	714.2	1052.4	1315.1	1400.6
85°	262.6	485.4	833.6	1102.2	1199.7
87.5°	69.6	314.3	648.6	905.2	1004.7
90°	2.0	181.0	491.4	738.1	827.6
92.5°	2.0	101.5	366.1	586.9	678.4
95°	2.0	47.7	254.7	461.6	533.2
97.5°	2.0	19.9	175.1	348.2	419.8
100°	2.0	9.9	111.4	252.7	314.3
102.5°	4.0	6.0	69.6	181.0	230.8
105°	4.0	6.0	41.8	123.3	165.1



TEST NUMBER: P580300

CATALOG NUMBER: HVSL12-8-LD4-3HI-30-UNV-O-EDD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	6.0	6.0	8.0	33.8	49.7
115°	6.0	6.0	8.0	21.9	31.8
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°	4.0	6.0	23.9	83.6	113.4
110°	6.0	6.0	13.9	51.7	75.6



(END OF REPORT)