

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: P580108

Luminaire Tested: **HVSL12-2-LD4-1HI-30-UNV-O-EDD**

Issue Date: 12/16/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P580108  
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: HVSL12-2-LD4-1HI-30-UNV-O-EDD  
Description: 2 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 3000K, 80 CRI LEDS  
Light Source: -  
Ballast/Driver: -

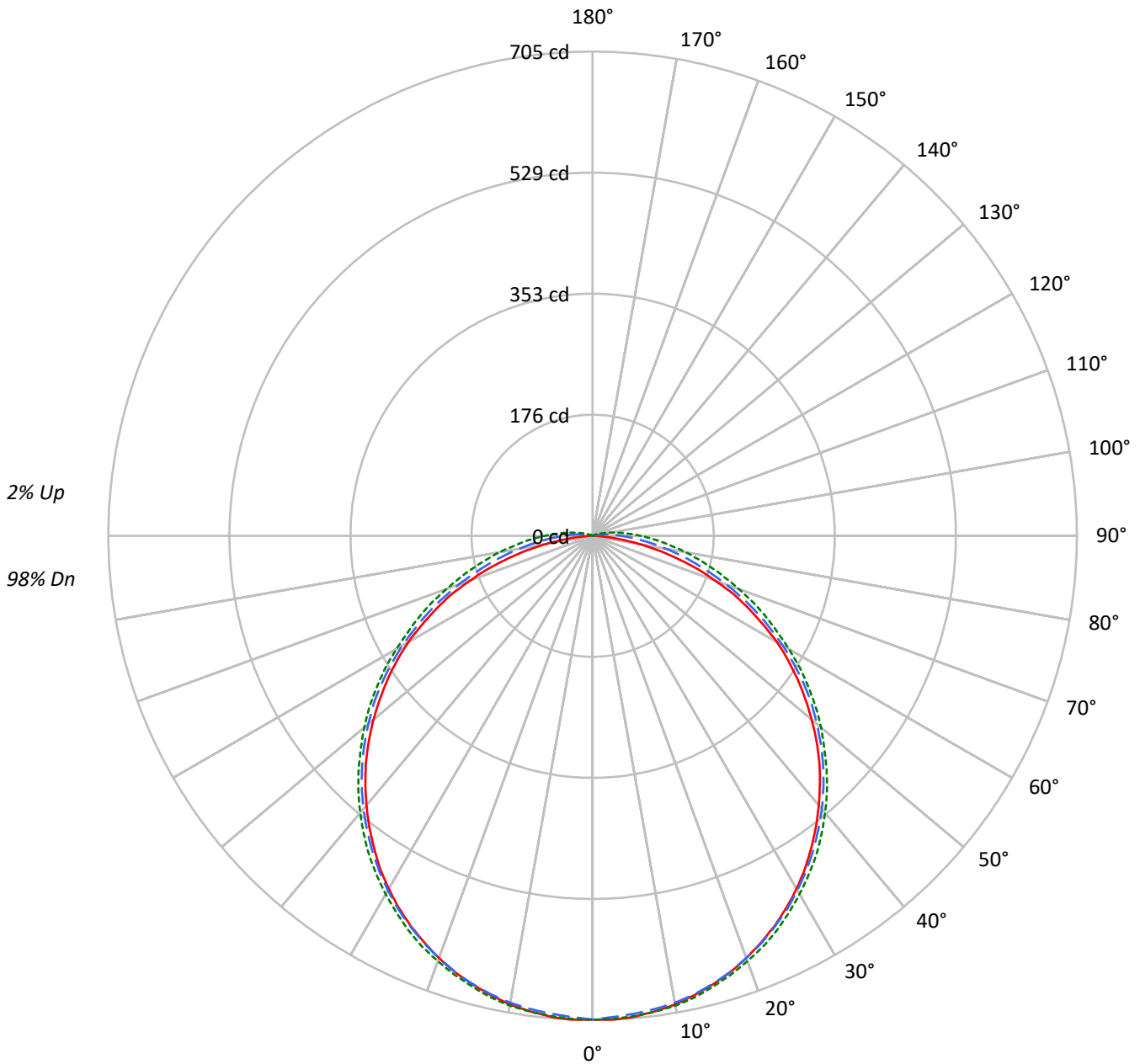
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2130.0 lumens  
Efficiency: N/A  
Efficacy: 93.4 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 2' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 22.8  
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°	3792	3792	3792
5°	3770	3716	3737
10°	3732	3659	3688
15°	3685	3594	3623
20°	3637	3520	3559
25°	3582	3444	3494
30°	3519	3362	3416
35°	3443	3271	3339
40°	3364	3175	3244
45°	3279	3070	3142
50°	3171	2947	3030
55°	3054	2812	2905
60°	2915	2633	2755
65°	2704	2432	2610
70°	2411	2193	2438
75°	2010	1931	2295
80°	1439	1676	2187
85°	693	1423	2128



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	66.7	3.1
10°-20°	191.2	9.0
20°-30°	290.2	13.6
30°-40°	350.8	16.5
40°-50°	366.1	17.2
50°-60°	334.7	15.7
60°-70°	260.9	12.2
70°-80°	163.2	7.7
80°-90°	74.1	3.5
90°-100°	24.9	1.2
100°-110°	6.2	0.3
110°-120°	1.0	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°	548.0	25.7
0°-40°	898.9	42.2
0°-60°	1599.7	75.1
0°-90°	2097.9	98.5
90°-120°	32.1	1.5
90°-150°	32.1	1.5
90°-180°	32.0	1.5
0°-180°	2130.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	704	704	704	704	704	
5°	703	702	698	702	702	67
15°	676	677	676	679	679	191
25°	627	627	628	633	634	289
35°	555	557	560	565	568	347
45°	467	471	475	479	482	360
55°	364	368	375	381	383	325
65°	250	255	263	274	278	248
75°	127	134	154	172	179	135
85°	22	40	70	92	100	28
90°	0	15	41	62	69	1
95°	0	4	21	38	44	0
105°	0	0	4	10	14	0
115°	0	0	1	2	3	0
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	



TEST NUMBER: P580108

CATALOG NUMBER: HVSL12-2-LD4-1HI-30-UNV-O-EDD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	704.5	704.5	704.5	704.5	704.5
2.5°	705.3	704.3	701.2	704.3	704.1
5°	703.0	701.7	698.5	701.8	701.8
7.5°	698.3	697.8	695.0	698.8	698.8
10°	692.9	692.7	690.4	694.5	694.7
12.5°	685.2	685.9	683.7	687.7	688.2
15°	676.2	677.4	675.6	679.4	679.2
17.5°	666.4	667.1	665.8	670.1	669.9
20°	654.3	655.2	654.2	658.6	659.1
22.5°	640.9	642.0	641.9	646.5	647.8
25°	626.6	627.1	627.8	633.1	634.1
27.5°	610.8	611.6	612.8	617.6	618.6
30°	593.5	594.9	596.2	601.2	602.5
32.5°	575.3	576.6	578.3	584.7	585.4
35°	554.7	557.2	559.5	565.1	567.5
37.5°	534.1	537.2	539.4	545.4	547.2
40°	512.3	515.5	519.0	525.3	526.4
42.5°	489.6	493.2	497.4	503.0	505.0
45°	466.7	470.8	474.6	479.3	481.6
47.5°	441.9	446.1	450.7	456.0	457.5
50°	416.3	421.2	426.1	431.1	433.8
52.5°	390.1	395.9	401.6	406.9	409.4
55°	364.2	368.5	375.3	380.8	383.3
57.5°	337.3	340.9	347.1	356.1	357.4
60°	309.9	313.2	319.5	326.8	329.8
62.5°	279.7	284.1	290.8	300.1	302.7
65°	250.3	254.6	263.4	273.9	278.2
67.5°	221.9	223.4	234.7	245.6	252.6
70°	188.3	194.0	207.1	220.5	225.9
72.5°	159.4	165.1	179.5	195.3	201.9
75°	126.7	134.5	154.1	172.5	179.0
77.5°	98.0	106.6	130.9	149.5	156.9
80°	68.4	81.9	108.3	129.2	137.3
82.5°	43.0	59.6	87.9	109.8	116.9
85°	21.9	40.5	69.6	92.0	100.1
87.5°	5.8	26.2	54.1	75.6	83.9
90°	0.2	15.1	41.0	61.6	69.1
92.5°	0.2	8.5	30.6	49.0	56.6
95°	0.2	4.0	21.3	38.5	44.5
97.5°	0.2	1.7	14.6	29.1	35.0
100°	0.2	0.8	9.3	21.1	26.2
102.5°	0.3	0.5	5.8	15.1	19.3
105°	0.3	0.5	3.5	10.3	13.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.5	0.5	0.7	2.8	4.2
115°	0.5	0.5	0.7	1.8	2.7
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°	0.3	0.5	2.0	7.0	9.5
110°	0.5	0.5	1.2	4.3	6.3



(END OF REPORT)