

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: P580420

Luminaire Tested: **HVSL4-1-LD4-1HI-30-UNV-O-EDD**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580420
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: HVSL4-1-LD4-1HI-30-UNV-O-EDD
Description: 1 FOOT, 4INCH WIDE, HVSL LED LUMINAIRE, WITH 3000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

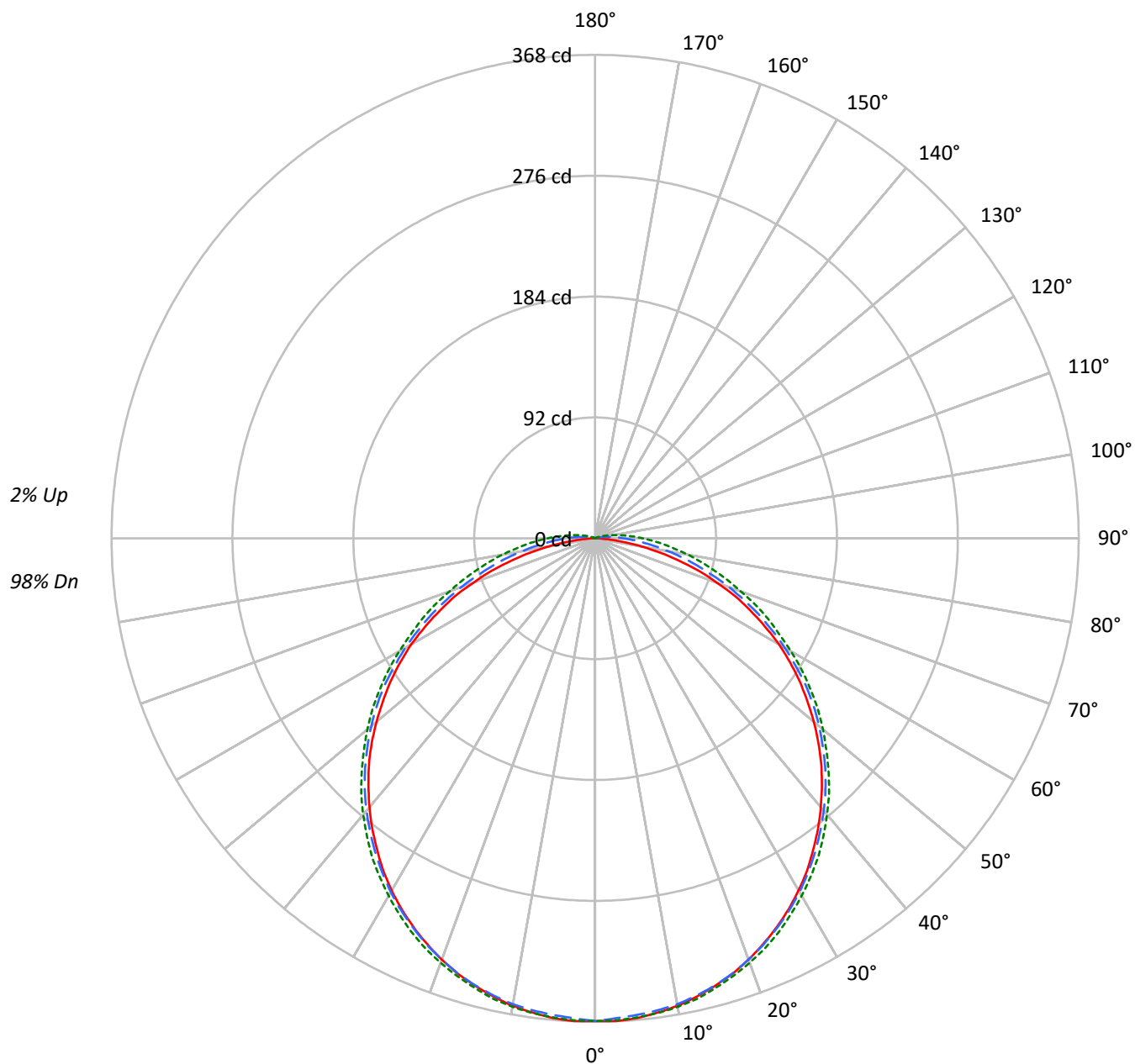
Lumens per Lamp: N/A
Luminaire Lumens: 1111.0 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.17')
CIE Type: Direct

Input Watts (W): 10.8
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					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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°	11867	11867	11867
5°	11716	11341	11370
10°	11512	10901	10917
15°	11287	10460	10445
20°	11058	10008	9995
25°	10804	9563	9555
30°	10531	9115	9094
35°	10212	8648	8642
40°	9881	8176	8154
45°	9527	7684	7647
50°	9103	7150	7123
55°	8640	6588	6565
60°	8098	5926	5952
65°	7345	5220	5350
70°	6359	4442	4685
75°	5084	3635	4065
80°	3413	2860	3471
85°	1454	2105	2880



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.8	3.1
10°-20°	99.7	9.0
20°-30°	151.3	13.6
30°-40°	183.0	16.5
40°-50°	191.0	17.2
50°-60°	174.6	15.7
60°-70°	136.1	12.2
70°-80°	85.1	7.7
80°-90°	38.7	3.5
90°-100°	13.0	1.2
100°-110°	3.3	0.3
110°-120°	0.5	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°	285.9	25.7
0°-40°	468.9	42.2
0°-60°	834.4	75.1
0°-90°	1094.3	98.5
90°-120°	16.7	1.5
90°-150°	16.7	1.5
90°-180°	17.0	1.5
0°-180°	1111.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	368	368	368	368	368	
5°	367	366	364	366	366	35
15°	353	353	352	354	354	100
25°	327	327	327	330	331	151
35°	289	291	292	295	296	181
45°	243	246	248	250	251	188
55°	190	192	196	199	200	170
65°	130	133	137	143	145	129
75°	66	70	80	90	93	70
85°	11	21	36	48	52	14
90°	0	8	21	32	36	0
95°	0	2	11	20	23	0
105°	0	0	2	5	7	0
115°	0	0	0	1	1	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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	367.5	367.5	367.5	367.5	367.5
2.5°	367.9	367.4	365.7	367.4	367.3
5°	366.7	366.0	364.3	366.1	366.1
7.5°	364.2	364.0	362.5	364.5	364.5
10°	361.4	361.3	360.1	362.3	362.3
12.5°	357.4	357.7	356.6	358.7	359.0
15°	352.7	353.3	352.4	354.4	354.3
17.5°	347.6	348.0	347.3	349.5	349.4
20°	341.3	341.7	341.2	343.5	343.8
22.5°	334.3	334.9	334.8	337.2	337.9
25°	326.8	327.1	327.4	330.2	330.7
27.5°	318.6	319.0	319.6	322.1	322.7
30°	309.6	310.3	311.0	313.6	314.3
32.5°	300.1	300.8	301.6	305.0	305.3
35°	289.3	290.6	291.8	294.8	296.0
37.5°	278.6	280.2	281.3	284.5	285.4
40°	267.2	268.9	270.7	274.0	274.6
42.5°	255.4	257.3	259.4	262.4	263.4
45°	243.4	245.6	247.6	250.0	251.2
47.5°	230.5	232.7	235.1	237.9	238.6
50°	217.2	219.7	222.3	224.9	226.3
52.5°	203.5	206.5	209.5	212.2	213.5
55°	190.0	192.2	195.8	198.6	199.9
57.5°	175.9	177.8	181.0	185.7	186.4
60°	161.6	163.4	166.7	170.5	172.0
62.5°	145.9	148.2	151.7	156.5	157.9
65°	130.5	132.8	137.4	142.8	145.1
67.5°	115.7	116.5	122.4	128.1	131.8
70°	98.2	101.2	108.0	115.0	117.8
72.5°	83.2	86.1	93.6	101.9	105.3
75°	66.1	70.2	80.4	90.0	93.4
77.5°	51.1	55.6	68.3	78.0	81.9
80°	35.7	42.7	56.5	67.4	71.6
82.5°	22.4	31.1	45.8	57.3	61.0
85°	11.4	21.1	36.3	48.0	52.2
87.5°	3.0	13.7	28.2	39.4	43.7
90°	0.1	7.9	21.4	32.1	36.0
92.5°	0.1	4.4	15.9	25.6	29.5
95°	0.1	2.1	11.1	20.1	23.2
97.5°	0.1	0.9	7.6	15.2	18.3
100°	0.1	0.4	4.9	11.0	13.7
102.5°	0.2	0.3	3.0	7.9	10.0
105°	0.2	0.3	1.8	5.4	7.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.3	0.3	0.3	1.5	2.2
115°	0.3	0.3	0.3	1.0	1.4
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°	0.2	0.3	1.0	3.6	4.9
110°	0.3	0.3	0.6	2.3	3.3



(END OF REPORT)