

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: P580530

Luminaire Tested: **HVSL4-3-LD4-1LO-50-UNV-O-EDD**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580530
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: HVSL4-3-LD4-1LO-50-UNV-O-EDD
Description: 3 FOOT, 4INCH WIDE, HVSL LED LUMINAIRE, WITH 5000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

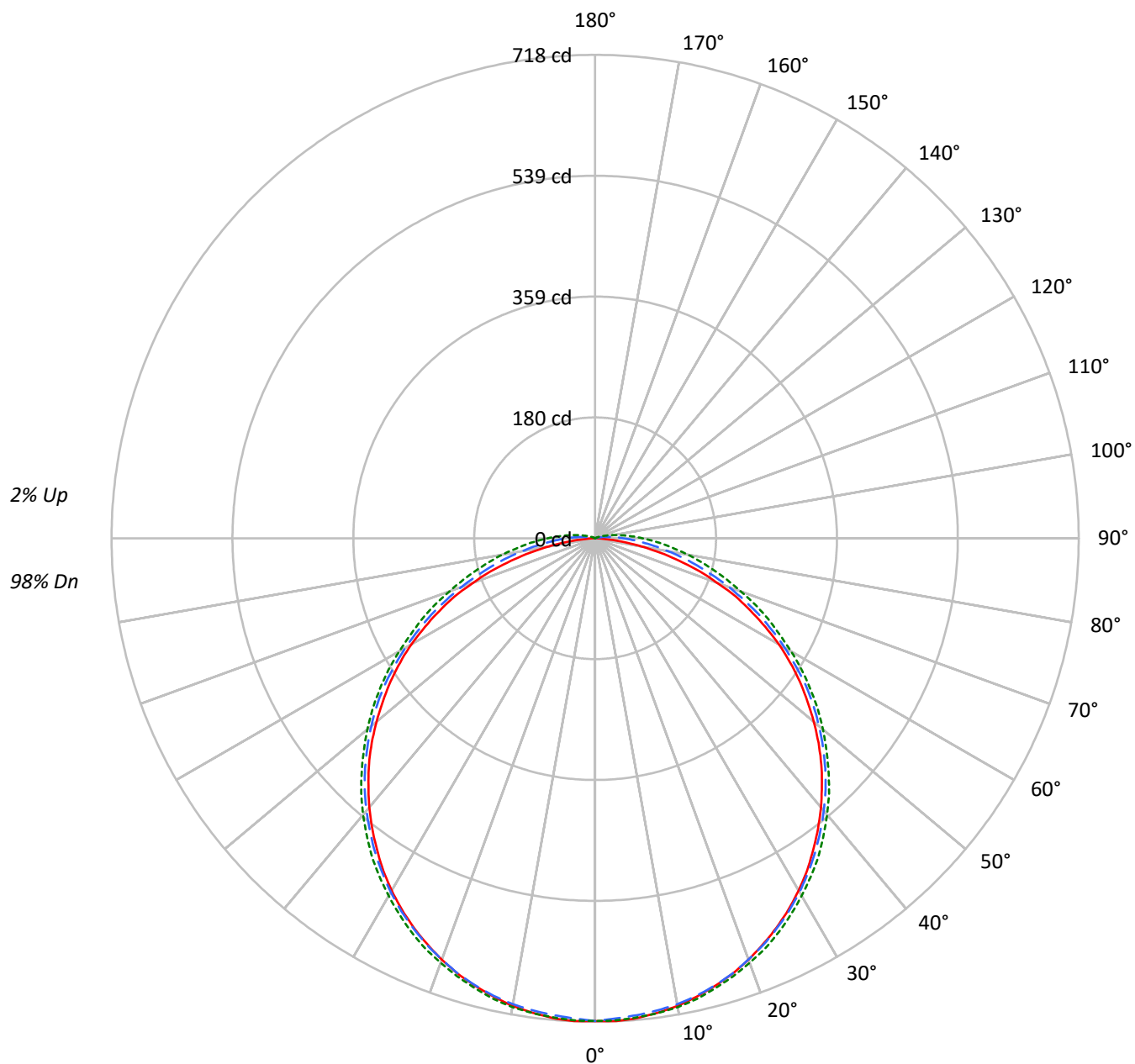
Lumens per Lamp: N/A
Luminaire Lumens: 2168.0 lumens
Efficiency: N/A
Efficacy: 125.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 3' x H: 0.17')
CIE Type: Direct

Input Watts (W): 17.3
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°	7718	7718	7718
5°	7694	7427	7395
10°	7633	7183	7102
15°	7558	6932	6794
20°	7478	6672	6502
25°	7384	6413	6216
30°	7275	6147	5915
35°	7141	5869	5621
40°	7001	5582	5303
45°	6850	5280	4974
50°	6656	4946	4632
55°	6445	4592	4271
60°	6194	4166	3873
65°	5796	3706	3479
70°	5234	3190	3048
75°	4443	2646	2644
80°	3280	2116	2259
85°	1684	1592	1874



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.9	3.1
10°-20°	194.6	9.0
20°-30°	295.3	13.6
30°-40°	357.1	16.5
40°-50°	372.6	17.2
50°-60°	340.7	15.7
60°-70°	265.6	12.2
70°-80°	166.1	7.7
80°-90°	75.4	3.5
90°-100°	25.3	1.2
100°-110°	6.3	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°	557.8	25.7
0°-40°	914.9	42.2
0°-60°	1628.2	75.1
0°-90°	2135.3	98.5
90°-120°	32.6	1.5
90°-150°	32.6	1.5
90°-180°	33.0	1.5
0°-180°	2168.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	717	717	717	717	717	
5°	716	714	711	714	714	68
15°	688	690	688	692	691	194
25°	638	638	639	644	645	294
35°	565	567	570	575	578	353
45°	475	479	483	488	490	366
55°	371	375	382	388	390	331
65°	255	259	268	279	283	252
75°	129	137	157	176	182	137
85°	22	41	71	94	102	28
90°	0	15	42	63	70	1
95°	0	4	22	39	45	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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	717.0	717.0	717.0	717.0	717.0
2.5°	717.9	716.9	713.7	716.9	716.7
5°	715.5	714.2	711.0	714.3	714.3
7.5°	710.8	710.3	707.4	711.3	711.3
10°	705.2	705.0	702.7	706.9	707.1
12.5°	697.4	698.1	695.9	700.0	700.5
15°	688.3	689.5	687.6	691.5	691.4
17.5°	678.3	679.0	677.7	682.1	681.9
20°	666.0	666.8	665.8	670.4	670.9
22.5°	652.3	653.5	653.3	658.1	659.4
25°	637.8	638.3	638.9	644.4	645.4
27.5°	621.7	622.6	623.7	628.6	629.7
30°	604.1	605.5	606.8	611.9	613.3
32.5°	585.5	586.9	588.6	595.2	595.8
35°	564.6	567.1	569.5	575.2	577.6
37.5°	543.6	546.8	549.0	555.1	557.0
40°	521.5	524.7	528.2	534.7	535.8
42.5°	498.3	502.0	506.3	512.0	514.0
45°	475.0	479.2	483.1	487.8	490.2
47.5°	449.8	454.0	458.8	464.2	465.7
50°	423.8	428.7	433.7	438.8	441.5
52.5°	397.1	403.0	408.7	414.1	416.7
55°	370.7	375.1	382.0	387.6	390.1
57.5°	343.3	347.0	353.3	362.4	363.8
60°	315.4	318.8	325.2	332.7	335.7
62.5°	284.7	289.2	296.0	305.4	308.1
65°	254.7	259.1	268.1	278.7	283.1
67.5°	225.8	227.4	238.8	250.0	257.1
70°	191.7	197.4	210.8	224.5	229.9
72.5°	162.3	168.0	182.7	198.8	205.5
75°	129.0	136.9	156.9	175.6	182.2
77.5°	99.7	108.5	133.2	152.1	159.7
80°	69.6	83.3	110.2	131.5	139.8
82.5°	43.8	60.7	89.4	111.7	119.0
85°	22.3	41.2	70.8	93.6	101.9
87.5°	5.9	26.7	55.1	76.9	85.4
90°	0.2	15.4	41.8	62.7	70.3
92.5°	0.2	8.6	31.1	49.9	57.6
95°	0.2	4.1	21.6	39.2	45.3
97.5°	0.2	1.7	14.9	29.6	35.7
100°	0.2	0.8	9.5	21.5	26.7
102.5°	0.3	0.5	5.9	15.4	19.6
105°	0.3	0.5	3.5	10.5	14.0



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CATALOG NUMBER: HVSL4-3-LD4-1LO-50-UNV-O-EDD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.5	0.5	0.7	2.9	4.2
115°	0.5	0.5	0.7	1.9	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	7.1	9.6
110°	0.5	0.5	1.2	4.4	6.4



(END OF REPORT)