

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: P580434

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

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580434
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-LD4-1LO-50-UNV-O-EDD
Description: 1 FOOT, 4INCH WIDE, HVSL LED LUMINAIRE, WITH 5000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

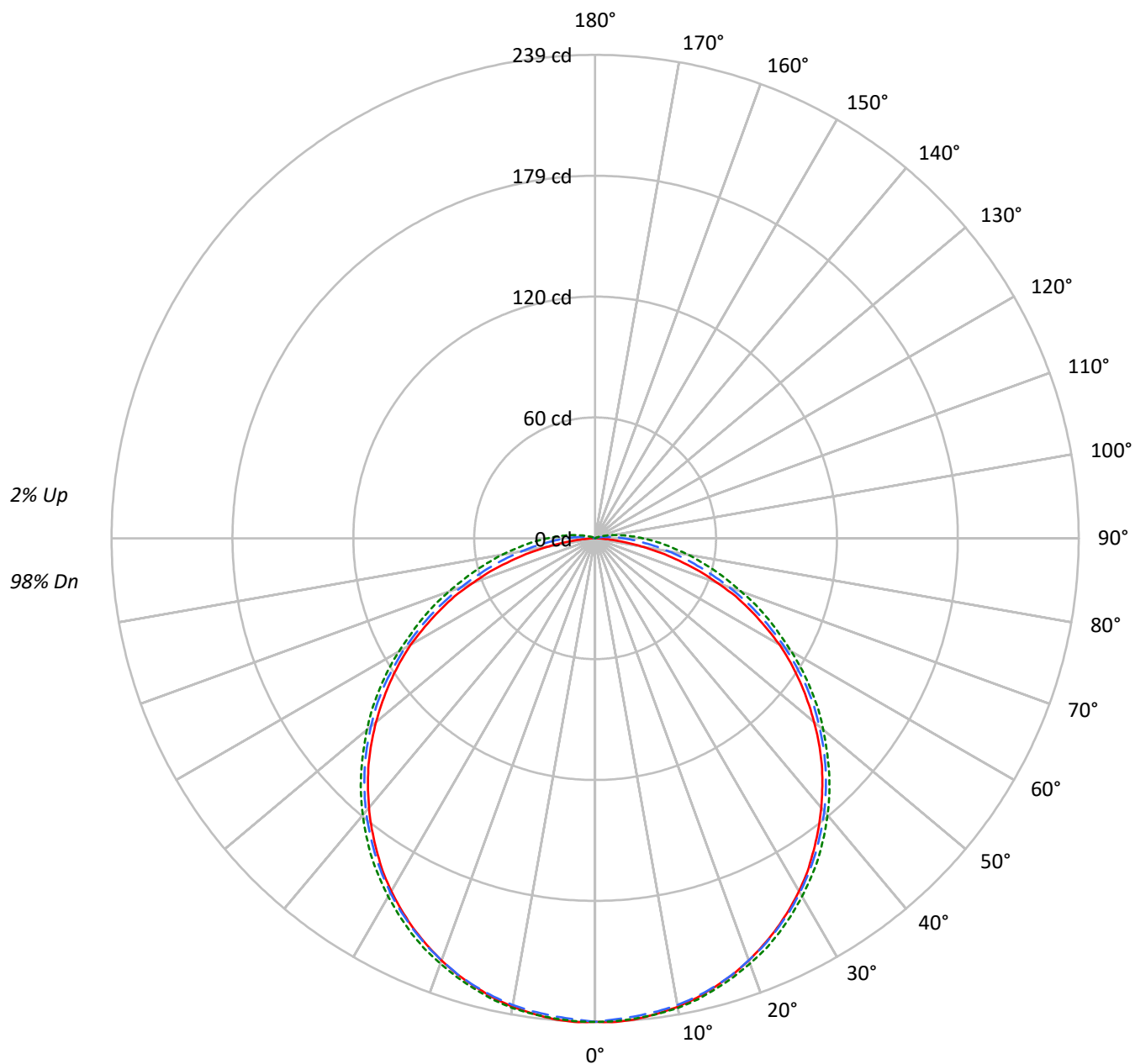
Lumens per Lamp: N/A
Luminaire Lumens: 723.0 lumens
Efficiency: N/A
Efficacy: 124.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.17')
CIE Type: Direct

Input Watts (W): 5.8
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°	7721	7721	7721
5°	7623	7381	7398
10°	7492	7093	7105
15°	7344	6806	6798
20°	7196	6511	6503
25°	7032	6224	6218
30°	6854	5932	5917
35°	6647	5628	5623
40°	6431	5322	5306
45°	6200	5000	4977
50°	5922	4651	4633
55°	5620	4286	4273
60°	5272	3857	3876
65°	4784	3397	3480
70°	4138	2892	3050
75°	3307	2365	2646
80°	2218	1863	2259
85°	944	1369	1876



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.6	3.1
10°-20°	64.9	9.0
20°-30°	98.5	13.6
30°-40°	119.1	16.5
40°-50°	124.3	17.2
50°-60°	113.6	15.7
60°-70°	88.6	12.3
70°-80°	55.4	7.7
80°-90°	25.2	3.5
90°-100°	8.5	1.2
100°-110°	2.1	0.3
110°-120°	0.3	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°	186.0	25.7
0°-40°	305.1	42.2
0°-60°	543.0	75.1
0°-90°	712.1	98.5
90°-120°	10.9	1.5
90°-150°	10.9	1.5
90°-180°	11.0	1.5
0°-180°	723.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	239	239	239	239	239	
5°	239	238	237	238	238	23
15°	230	230	229	231	231	65
25°	213	213	213	215	215	98
35°	188	189	190	192	193	118
45°	158	160	161	163	164	122
55°	124	125	127	129	130	110
65°	85	86	89	93	94	84
75°	43	46	52	59	61	46
85°	7	14	24	31	34	9
90°	0	5	14	21	24	0
95°	0	1	7	13	15	0
105°	0	0	1	4	5	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°	239.1	239.1	239.1	239.1	239.1
2.5°	239.4	239.1	238.0	239.1	239.0
5°	238.6	238.2	237.1	238.2	238.2
7.5°	237.0	236.9	235.9	237.2	237.2
10°	235.2	235.1	234.3	235.7	235.8
12.5°	232.6	232.8	232.1	233.4	233.6
15°	229.5	229.9	229.3	230.6	230.6
17.5°	226.2	226.4	226.0	227.5	227.4
20°	222.1	222.4	222.0	223.6	223.7
22.5°	217.5	217.9	217.9	219.5	219.9
25°	212.7	212.9	213.1	214.9	215.2
27.5°	207.3	207.6	208.0	209.6	210.0
30°	201.5	201.9	202.4	204.1	204.5
32.5°	195.3	195.7	196.3	198.5	198.7
35°	188.3	189.1	189.9	191.8	192.6
37.5°	181.3	182.4	183.1	185.1	185.7
40°	173.9	175.0	176.2	178.3	178.7
42.5°	166.2	167.4	168.8	170.7	171.4
45°	158.4	159.8	161.1	162.7	163.5
47.5°	150.0	151.4	153.0	154.8	155.3
50°	141.3	143.0	144.6	146.3	147.2
52.5°	132.4	134.4	136.3	138.1	139.0
55°	123.6	125.1	127.4	129.3	130.1
57.5°	114.5	115.7	117.8	120.9	121.3
60°	105.2	106.3	108.5	110.9	112.0
62.5°	94.9	96.5	98.7	101.9	102.8
65°	85.0	86.4	89.4	93.0	94.4
67.5°	75.3	75.8	79.7	83.4	85.7
70°	63.9	65.8	70.3	74.9	76.7
72.5°	54.1	56.0	60.9	66.3	68.5
75°	43.0	45.7	52.3	58.6	60.8
77.5°	33.3	36.2	44.4	50.7	53.3
80°	23.2	27.8	36.8	43.9	46.6
82.5°	14.6	20.2	29.8	37.3	39.7
85°	7.4	13.8	23.6	31.2	34.0
87.5°	2.0	8.9	18.4	25.6	28.5
90°	0.1	5.1	13.9	20.9	23.5
92.5°	0.1	2.9	10.4	16.6	19.2
95°	0.1	1.4	7.2	13.1	15.1
97.5°	0.1	0.6	5.0	9.9	11.9
100°	0.1	0.3	3.2	7.2	8.9
102.5°	0.1	0.2	2.0	5.1	6.5
105°	0.1	0.2	1.2	3.5	4.7



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

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.2	0.2	0.2	1.0	1.4
115°	0.2	0.2	0.2	0.6	0.9
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°	0.1	0.2	0.7	2.4	3.2
110°	0.2	0.2	0.4	1.5	2.1



(END OF REPORT)