

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: P580426

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

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580426
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-50-UNV-O-EDD
Description: 1 FOOT, 4INCH WIDE, HVSL LED LUMINAIRE, WITH 5000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

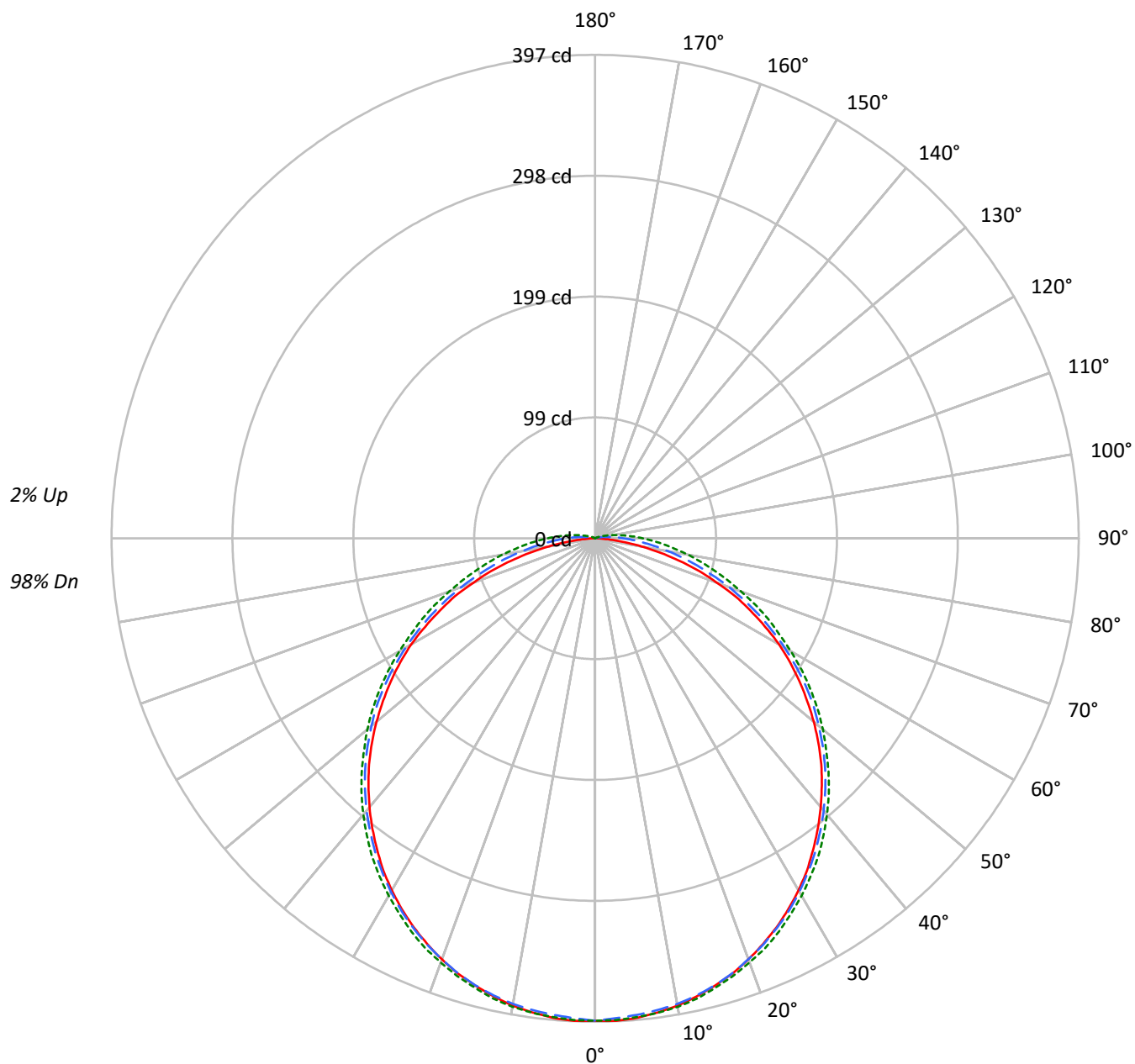
Lumens per Lamp: N/A
Luminaire Lumens: 1198.0 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.17')
CIE Type: Direct

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°	12794	12794	12794
5°	12633	12231	12258
10°	12413	11755	11773
15°	12170	11279	11262
20°	11923	10791	10777
25°	11650	10313	10303
30°	11354	9827	9805
35°	11014	9327	9320
40°	10658	8817	8792
45°	10275	8286	8247
50°	9816	7710	7680
55°	9313	7102	7081
60°	8735	6388	6420
65°	7925	5627	5770
70°	6858	4792	5051
75°	5484	3920	4383
80°	3680	3082	3742
85°	1569	2267	3106



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.5	3.1
10°-20°	107.6	9.0
20°-30°	163.2	13.6
30°-40°	197.3	16.5
40°-50°	205.9	17.2
50°-60°	188.3	15.7
60°-70°	146.8	12.2
70°-80°	91.8	7.7
80°-90°	41.7	3.5
90°-100°	14.0	1.2
100°-110°	3.5	0.3
110°-120°	0.6	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°	308.2	25.7
0°-40°	505.6	42.2
0°-60°	899.7	75.1
0°-90°	1180.0	98.5
90°-120°	18.1	1.5
90°-150°	18.1	1.5
90°-180°	18.0	1.5
0°-180°	1198.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	396	396	396	396	396	
5°	395	395	393	395	395	38
15°	380	381	380	382	382	107
25°	352	353	353	356	357	162
35°	312	313	315	318	319	195
45°	262	265	267	270	271	202
55°	205	207	211	214	216	183
65°	141	143	148	154	156	139
75°	71	76	87	97	101	76
85°	12	23	39	52	56	16
90°	0	8	23	35	39	0
95°	0	2	12	22	25	0
105°	0	0	2	6	8	0
115°	0	0	0	1	2	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°	396.2	396.2	396.2	396.2	396.2
2.5°	396.7	396.1	394.4	396.1	396.0
5°	395.4	394.6	392.9	394.7	394.7
7.5°	392.8	392.5	390.9	393.1	393.1
10°	389.7	389.6	388.3	390.6	390.7
12.5°	385.4	385.8	384.6	386.8	387.1
15°	380.3	381.0	380.0	382.1	382.0
17.5°	374.8	375.2	374.5	376.9	376.8
20°	368.0	368.5	367.9	370.4	370.7
22.5°	360.5	361.1	361.0	363.6	364.4
25°	352.4	352.7	353.1	356.1	356.6
27.5°	343.5	344.0	344.7	347.4	347.9
30°	333.8	334.6	335.3	338.1	338.9
32.5°	323.6	324.3	325.2	328.9	329.3
35°	312.0	313.4	314.7	317.9	319.2
37.5°	300.4	302.2	303.4	306.7	307.8
40°	288.2	289.9	291.9	295.4	296.1
42.5°	275.4	277.4	279.7	282.9	284.0
45°	262.5	264.8	267.0	269.6	270.9
47.5°	248.6	250.9	253.5	256.5	257.3
50°	234.2	236.9	239.7	242.5	244.0
52.5°	219.4	222.7	225.9	228.8	230.2
55°	204.8	207.3	211.1	214.2	215.6
57.5°	189.7	191.8	195.2	200.3	201.0
60°	174.3	176.2	179.7	183.8	185.5
62.5°	157.3	159.8	163.6	168.8	170.3
65°	140.8	143.2	148.1	154.0	156.5
67.5°	124.8	125.6	132.0	138.1	142.1
70°	105.9	109.1	116.5	124.0	127.0
72.5°	89.7	92.8	101.0	109.8	113.6
75°	71.3	75.7	86.7	97.0	100.7
77.5°	55.1	60.0	73.6	84.1	88.3
80°	38.5	46.0	60.9	72.7	77.2
82.5°	24.2	33.5	49.4	61.7	65.8
85°	12.3	22.8	39.1	51.7	56.3
87.5°	3.3	14.8	30.5	42.5	47.2
90°	0.1	8.5	23.1	34.7	38.9
92.5°	0.1	4.8	17.2	27.6	31.9
95°	0.1	2.2	12.0	21.7	25.0
97.5°	0.1	0.9	8.2	16.3	19.7
100°	0.1	0.5	5.2	11.9	14.8
102.5°	0.2	0.3	3.3	8.5	10.8
105°	0.2	0.3	2.0	5.8	7.8



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

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.3	0.3	0.4	1.6	2.3
115°	0.3	0.3	0.4	1.0	1.5
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	1.1	3.9	5.3
110°	0.3	0.3	0.7	2.4	3.5



(END OF REPORT)