

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: P580425

Luminaire Tested: **HVSL4-1-LD4-1HI-50-UNV-O-EDD-90**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580425
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-90
Description: 1 FOOT, 4INCH WIDE, HVSL LED LUMINAIRE, WITH 5000K, 90 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

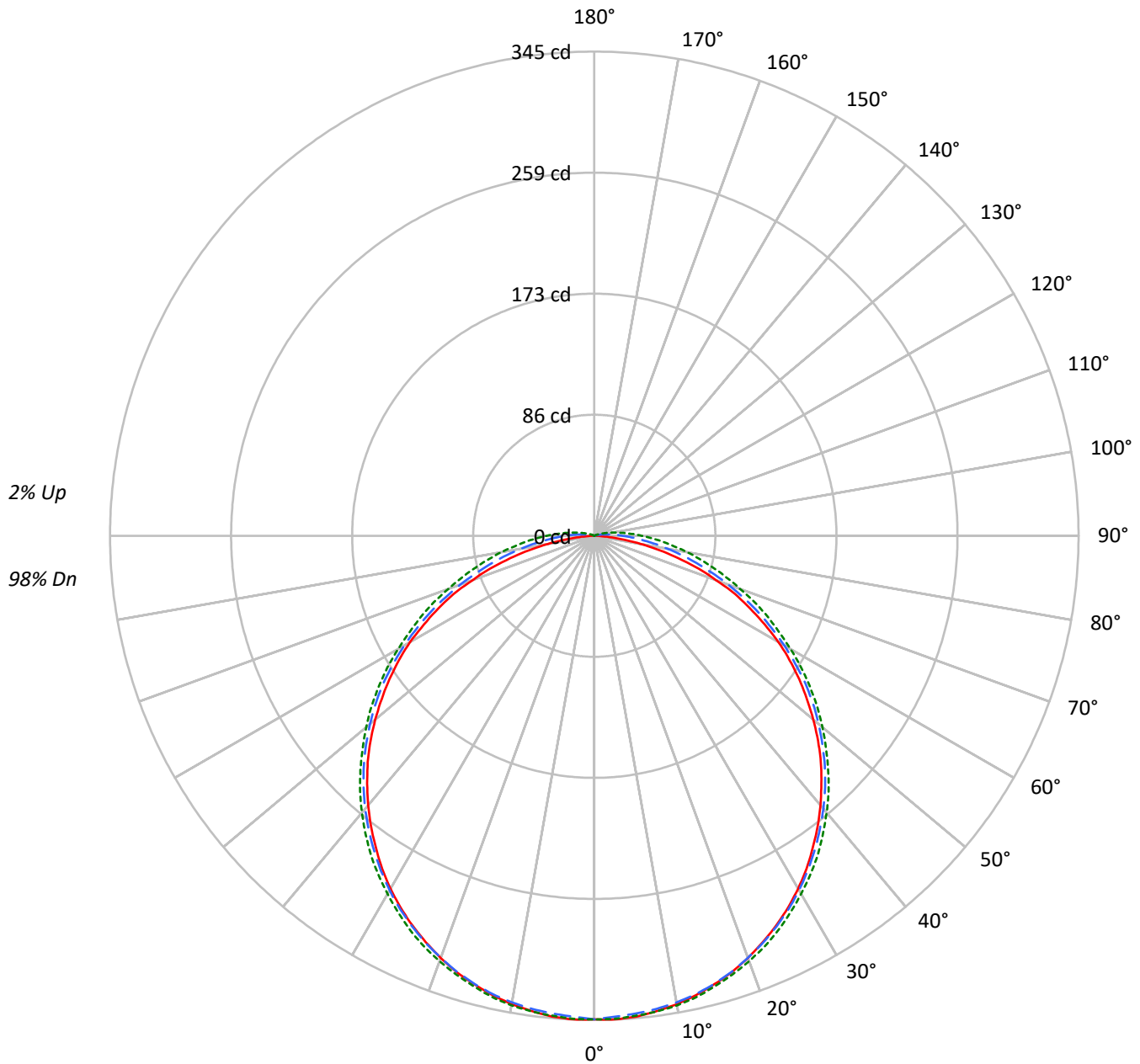
Lumens per Lamp: N/A
Luminaire Lumens: 1042.0 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.17')
CIE Type: Direct

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°	11128	11128	11128
5°	10987	10637	10662
10°	10795	10223	10239
15°	10586	9810	9796
20°	10371	9386	9376
25°	10133	8970	8962
30°	9878	8549	8527
35°	9577	8112	8105
40°	9267	7669	7646
45°	8936	7206	7172
50°	8537	6706	6679
55°	8103	6177	6158
60°	7597	5557	5582
65°	6890	4897	5018
70°	5964	4167	4395
75°	4769	3409	3813
80°	3202	2683	3258
85°	1365	1972	2703



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.6	3.1
10°-20°	93.5	9.0
20°-30°	141.9	13.6
30°-40°	171.6	16.5
40°-50°	179.1	17.2
50°-60°	163.7	15.7
60°-70°	127.6	12.3
70°-80°	79.8	7.7
80°-90°	36.3	3.5
90°-100°	12.1	1.2
100°-110°	3.0	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°	268.1	25.7
0°-40°	439.7	42.2
0°-60°	782.6	75.1
0°-90°	1026.3	98.5
90°-120°	15.6	1.5
90°-150°	15.6	1.5
90°-180°	16.0	1.5
0°-180°	1042.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	345	345	345	345	345	
5°	344	343	342	343	343	33
15°	331	331	330	332	332	93
25°	306	307	307	310	310	141
35°	271	273	274	276	278	170
45°	228	230	232	234	236	176
55°	178	180	184	186	188	159
65°	122	124	129	134	136	121
75°	62	66	75	84	88	66
85°	11	20	34	45	49	14
90°	0	7	20	30	34	0
95°	0	2	10	19	22	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°	344.6	344.6	344.6	344.6	344.6
2.5°	345.0	344.5	343.0	344.5	344.5
5°	343.9	343.2	341.7	343.3	343.3
7.5°	341.6	341.4	340.0	341.9	341.9
10°	338.9	338.9	337.7	339.8	339.8
12.5°	335.2	335.5	334.5	336.4	336.7
15°	330.8	331.4	330.5	332.4	332.3
17.5°	326.0	326.4	325.7	327.8	327.7
20°	320.1	320.5	320.0	322.2	322.5
22.5°	313.5	314.1	314.0	316.3	316.9
25°	306.5	306.8	307.1	309.7	310.2
27.5°	298.8	299.2	299.8	302.1	302.6
30°	290.4	291.0	291.7	294.1	294.7
32.5°	281.4	282.1	282.9	286.1	286.4
35°	271.3	272.6	273.7	276.5	277.6
37.5°	261.3	262.8	263.9	266.8	267.7
40°	250.6	252.2	253.9	257.0	257.5
42.5°	239.5	241.3	243.3	246.1	247.1
45°	228.3	230.3	232.2	234.5	235.6
47.5°	216.2	218.2	220.5	223.1	223.8
50°	203.7	206.0	208.5	210.9	212.2
52.5°	190.8	193.7	196.4	199.0	200.3
55°	178.2	180.3	183.6	186.3	187.5
57.5°	165.0	166.8	169.8	174.2	174.8
60°	151.6	153.2	156.3	159.9	161.3
62.5°	136.8	139.0	142.3	146.8	148.1
65°	122.4	124.5	128.9	134.0	136.1
67.5°	108.5	109.3	114.8	120.2	123.6
70°	92.1	94.9	101.3	107.9	110.5
72.5°	78.0	80.8	87.8	95.5	98.8
75°	62.0	65.8	75.4	84.4	87.6
77.5°	47.9	52.2	64.0	73.1	76.8
80°	33.5	40.1	53.0	63.2	67.2
82.5°	21.0	29.2	43.0	53.7	57.2
85°	10.7	19.8	34.0	45.0	49.0
87.5°	2.8	12.8	26.5	37.0	41.0
90°	0.1	7.4	20.1	30.1	33.8
92.5°	0.1	4.1	14.9	24.0	27.7
95°	0.1	1.9	10.4	18.8	21.8
97.5°	0.1	0.8	7.1	14.2	17.1
100°	0.1	0.4	4.5	10.3	12.8
102.5°	0.2	0.2	2.8	7.4	9.4
105°	0.2	0.2	1.7	5.0	6.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.2	0.2	0.3	1.4	2.0
115°	0.2	0.2	0.3	0.9	1.3
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	0.2	1.0	3.4	4.6
110°	0.2	0.2	0.6	2.1	3.1



(END OF REPORT)