

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: P580438

Luminaire Tested: **HVSL4-1-LD4-1STD-35-UNV-O-EDD**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580438
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-LD4-1STD-35-UNV-O-EDD
Description: 1 FOOT, 4INCH WIDE, HVSL LED LUMINAIRE, WITH 3500K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

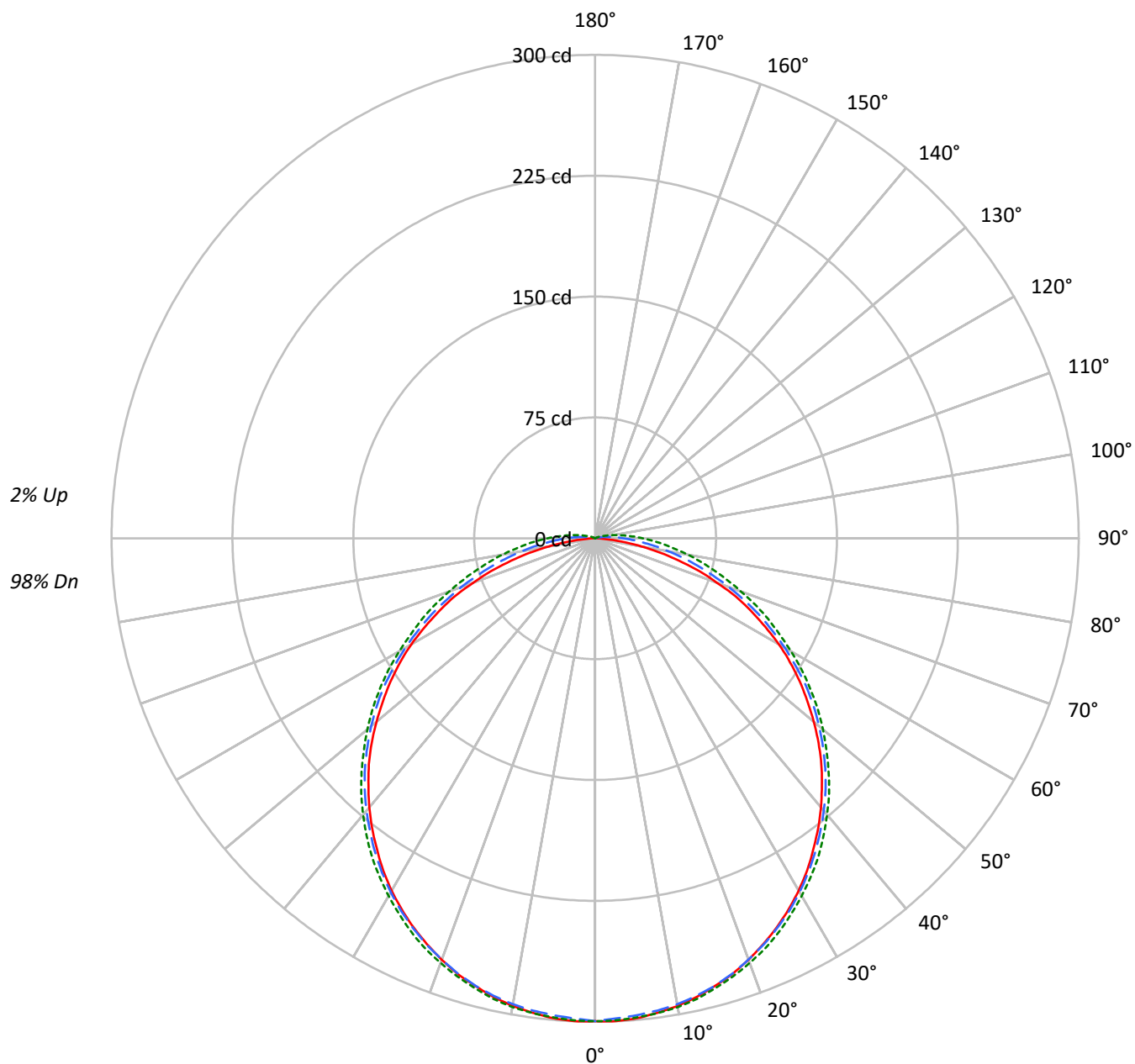
Lumens per Lamp: N/A
Luminaire Lumens: 906.0 lumens
Efficiency: N/A
Efficacy: 110.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.17')
CIE Type: Direct

Input Watts (W): 8.2
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°	9678	9678	9678
5°	9553	9249	9270
10°	9387	8888	8904
15°	9204	8530	8517
20°	9016	8160	8152
25°	8811	7799	7792
30°	8588	7433	7416
35°	8327	7053	7048
40°	8058	6666	6648
45°	7770	6266	6238
50°	7422	5831	5807
55°	7044	5370	5353
60°	6605	4831	4855
65°	5995	4255	4362
70°	5187	3624	3822
75°	4146	2966	3312
80°	2782	2333	2831
85°	1186	1716	2350



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.4	3.1
10°-20°	81.3	9.0
20°-30°	123.4	13.6
30°-40°	149.2	16.5
40°-50°	155.7	17.2
50°-60°	142.4	15.7
60°-70°	111.0	12.2
70°-80°	69.4	7.7
80°-90°	31.5	3.5
90°-100°	10.6	1.2
100°-110°	2.7	0.3
110°-120°	0.4	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°	233.1	25.7
0°-40°	382.3	42.2
0°-60°	680.4	75.1
0°-90°	892.4	98.5
90°-120°	13.6	1.5
90°-150°	13.6	1.5
90°-180°	14.0	1.5
0°-180°	906.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	300	300	300	300	300	
5°	299	298	297	298	298	28
15°	288	288	287	289	289	81
25°	266	267	267	269	270	123
35°	236	237	238	240	241	148
45°	198	200	202	204	205	153
55°	155	157	160	162	163	138
65°	106	108	112	116	118	105
75°	54	57	66	73	76	57
85°	9	17	30	39	43	12
90°	0	6	17	26	29	0
95°	0	2	9	16	19	0
105°	0	0	2	4	6	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°	299.7	299.7	299.7	299.7	299.7
2.5°	300.0	299.6	298.2	299.6	299.5
5°	299.0	298.4	297.1	298.5	298.5
7.5°	297.0	296.8	295.6	297.2	297.2
10°	294.7	294.6	293.6	295.4	295.5
12.5°	291.5	291.7	290.8	292.5	292.7
15°	287.6	288.1	287.4	289.0	288.9
17.5°	283.5	283.8	283.2	285.0	285.0
20°	278.3	278.7	278.2	280.2	280.4
22.5°	272.6	273.1	273.0	275.0	275.6
25°	266.5	266.7	267.0	269.3	269.7
27.5°	259.8	260.2	260.7	262.7	263.1
30°	252.5	253.0	253.6	255.7	256.3
32.5°	244.7	245.3	246.0	248.7	249.0
35°	235.9	237.0	238.0	240.4	241.4
37.5°	227.2	228.5	229.4	232.0	232.8
40°	217.9	219.3	220.7	223.4	223.9
42.5°	208.2	209.8	211.6	214.0	214.8
45°	198.5	200.3	201.9	203.9	204.9
47.5°	188.0	189.7	191.7	194.0	194.6
50°	177.1	179.1	181.3	183.4	184.5
52.5°	165.9	168.4	170.8	173.1	174.1
55°	154.9	156.7	159.6	162.0	163.0
57.5°	143.5	145.0	147.6	151.4	152.0
60°	131.8	133.2	135.9	139.0	140.3
62.5°	119.0	120.9	123.7	127.6	128.8
65°	106.5	108.3	112.0	116.5	118.3
67.5°	94.4	95.0	99.8	104.5	107.4
70°	80.1	82.5	88.1	93.8	96.1
72.5°	67.8	70.2	76.4	83.1	85.9
75°	53.9	57.2	65.6	73.4	76.1
77.5°	41.7	45.4	55.7	63.6	66.8
80°	29.1	34.8	46.1	55.0	58.4
82.5°	18.3	25.4	37.4	46.7	49.7
85°	9.3	17.2	29.6	39.1	42.6
87.5°	2.5	11.2	23.0	32.1	35.7
90°	0.1	6.4	17.4	26.2	29.4
92.5°	0.1	3.6	13.0	20.8	24.1
95°	0.1	1.7	9.0	16.4	18.9
97.5°	0.1	0.7	6.2	12.4	14.9
100°	0.1	0.4	4.0	9.0	11.2
102.5°	0.1	0.2	2.5	6.4	8.2
105°	0.1	0.2	1.5	4.4	5.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.2	0.2	0.3	1.2	1.8
115°	0.2	0.2	0.3	0.8	1.1
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	0.8	3.0	4.0
110°	0.2	0.2	0.5	1.8	2.7



(END OF REPORT)