

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: P580440

Luminaire Tested: **HVSL4-1-LD4-1STD-40-UNV-O-EDD**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580440
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-40-UNV-O-EDD
Description: 1 FOOT, 4INCH WIDE, HVSL LED LUMINAIRE, WITH 4000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

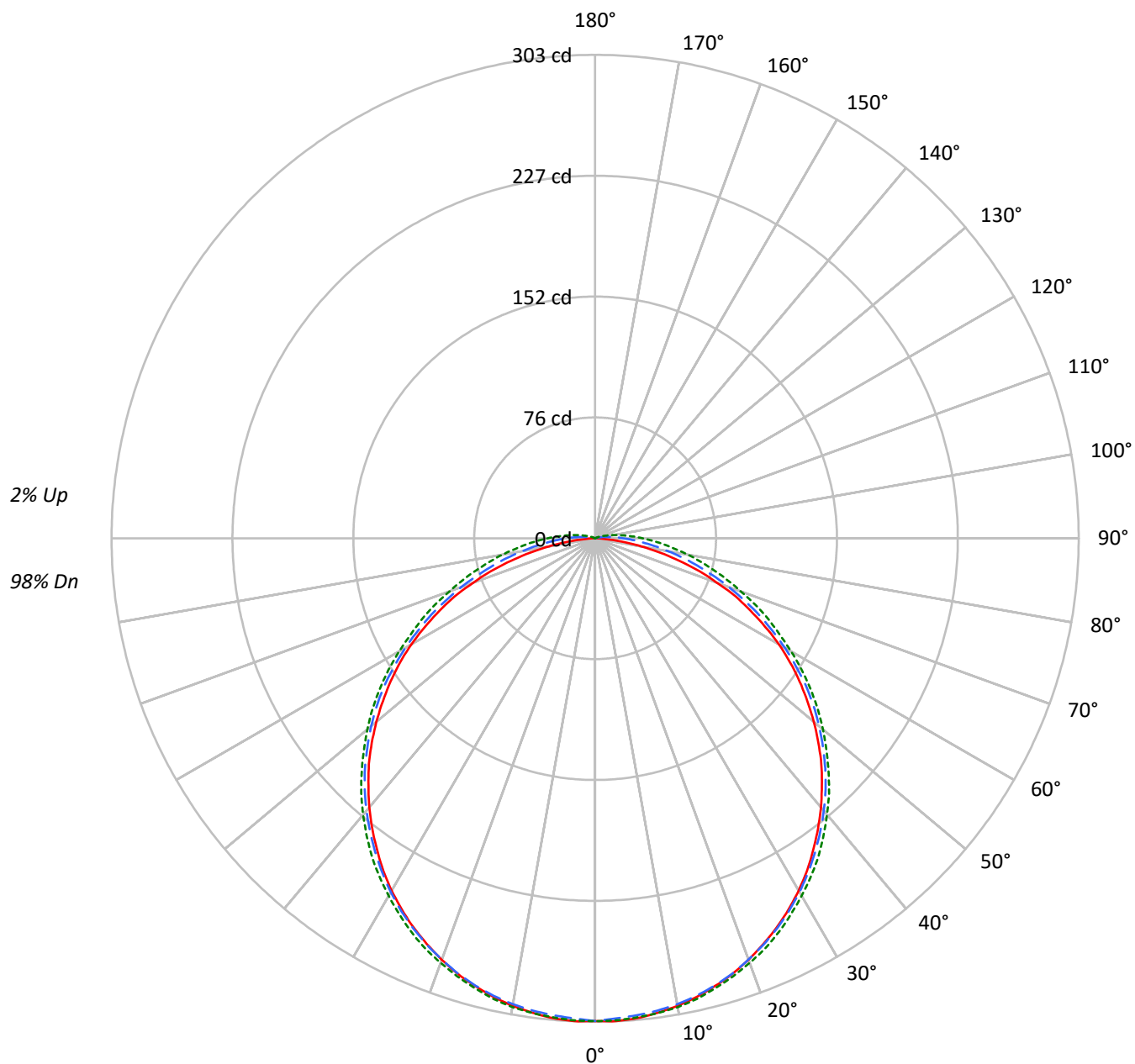
Lumens per Lamp: N/A
Luminaire Lumens: 915.0 lumens
Efficiency: N/A
Efficacy: 111.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.17')
CIE Type: Direct

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°	9771	9771	9771
5°	9649	9342	9363
10°	9480	8979	8992
15°	9296	8613	8602
20°	9107	8242	8233
25°	8900	7877	7870
30°	8673	7506	7488
35°	8412	7122	7118
40°	8140	6732	6714
45°	7848	6328	6299
50°	7498	5889	5864
55°	7112	5423	5409
60°	6670	4881	4904
65°	6051	4297	4406
70°	5239	3661	3858
75°	4184	2993	3347
80°	2810	2354	2860
85°	1199	1734	2372



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.6	3.1
10°-20°	82.1	9.0
20°-30°	124.6	13.6
30°-40°	150.7	16.5
40°-50°	157.3	17.2
50°-60°	143.8	15.7
60°-70°	112.1	12.2
70°-80°	70.1	7.7
80°-90°	31.9	3.5
90°-100°	10.7	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°	235.4	25.7
0°-40°	386.1	42.2
0°-60°	687.2	75.1
0°-90°	901.2	98.5
90°-120°	13.8	1.5
90°-150°	13.8	1.5
90°-180°	14.0	1.5
0°-180°	915.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	303	303	303	303	303	
5°	302	301	300	302	302	29
15°	290	291	290	292	292	82
25°	269	269	270	272	272	124
35°	238	239	240	243	244	149
45°	200	202	204	206	207	154
55°	156	158	161	164	165	140
65°	108	109	113	118	120	106
75°	54	58	66	74	77	58
85°	9	17	30	40	43	12
90°	0	6	18	26	30	0
95°	0	2	9	17	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°	302.6	302.6	302.6	302.6	302.6
2.5°	303.0	302.6	301.2	302.6	302.5
5°	302.0	301.4	300.1	301.5	301.5
7.5°	300.0	299.8	298.6	300.2	300.2
10°	297.6	297.6	296.6	298.3	298.4
12.5°	294.4	294.6	293.7	295.4	295.6
15°	290.5	291.0	290.2	291.9	291.8
17.5°	286.3	286.6	286.0	287.9	287.8
20°	281.1	281.4	281.0	282.9	283.2
22.5°	275.3	275.8	275.7	277.7	278.3
25°	269.2	269.4	269.7	272.0	272.4
27.5°	262.4	262.7	263.2	265.3	265.7
30°	255.0	255.5	256.1	258.3	258.8
32.5°	247.1	247.7	248.4	251.2	251.5
35°	238.3	239.3	240.3	242.8	243.8
37.5°	229.4	230.8	231.7	234.3	235.1
40°	220.1	221.4	222.9	225.7	226.1
42.5°	210.3	211.9	213.7	216.1	216.9
45°	200.5	202.3	203.9	205.9	206.9
47.5°	189.8	191.6	193.6	195.9	196.5
50°	178.9	180.9	183.1	185.2	186.3
52.5°	167.6	170.1	172.5	174.8	175.9
55°	156.4	158.3	161.2	163.6	164.7
57.5°	144.9	146.5	149.1	153.0	153.5
60°	133.1	134.5	137.3	140.4	141.7
62.5°	120.1	122.1	124.9	128.9	130.1
65°	107.5	109.4	113.1	117.6	119.5
67.5°	95.3	96.0	100.8	105.5	108.5
70°	80.9	83.3	89.0	94.7	97.0
72.5°	68.5	70.9	77.1	83.9	86.8
75°	54.4	57.8	66.2	74.1	76.9
77.5°	42.1	45.8	56.2	64.2	67.4
80°	29.4	35.2	46.5	55.5	59.0
82.5°	18.5	25.6	37.7	47.2	50.2
85°	9.4	17.4	29.9	39.5	43.0
87.5°	2.5	11.3	23.3	32.5	36.0
90°	0.1	6.5	17.6	26.5	29.7
92.5°	0.1	3.6	13.1	21.0	24.3
95°	0.1	1.7	9.1	16.6	19.1
97.5°	0.1	0.7	6.3	12.5	15.1
100°	0.1	0.4	4.0	9.1	11.3
102.5°	0.1	0.2	2.5	6.5	8.3
105°	0.1	0.2	1.5	4.4	5.9



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CATALOG NUMBER: HVSL4-1-LD4-1STD-40-UNV-O-EDD

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	0.9	3.0	4.1
110°	0.2	0.2	0.5	1.9	2.7



(END OF REPORT)