

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: P580437

Luminaire Tested: **HVSL4-1-LD4-1STD-35-UNV-O-EDD-90**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580437
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-90
Description: 1 FOOT, 4INCH WIDE, HVSL LED LUMINAIRE, WITH 3500K, 90 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

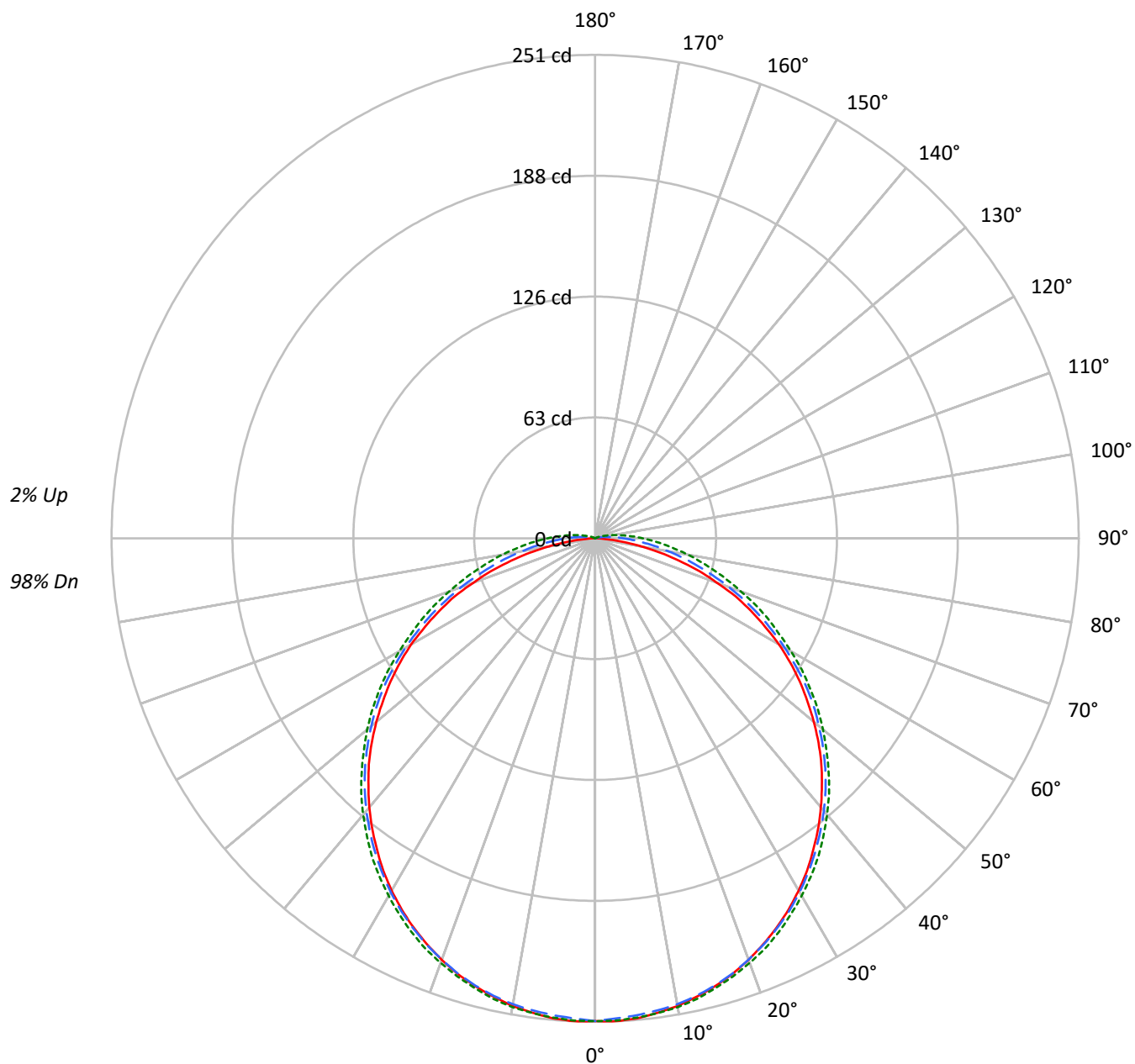
Lumens per Lamp: N/A
Luminaire Lumens: 758.0 lumens
Efficiency: N/A
Efficacy: 92.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.17')
CIE Type: Direct

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°	8096	8096	8096
5°	7994	7739	7758
10°	7855	7438	7449
15°	7703	7135	7125
20°	7546	6828	6820
25°	7372	6525	6518
30°	7184	6219	6203
35°	6968	5901	5895
40°	6742	5579	5562
45°	6502	5242	5218
50°	6211	4876	4860
55°	5893	4495	4480
60°	5528	4042	4063
65°	5015	3560	3650
70°	4339	3031	3198
75°	3469	2478	2773
80°	2323	1949	2370
85°	995	1438	1964



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.7	3.1
10°-20°	68.1	9.0
20°-30°	103.3	13.6
30°-40°	124.9	16.5
40°-50°	130.3	17.2
50°-60°	119.1	15.7
60°-70°	92.9	12.3
70°-80°	58.1	7.7
80°-90°	26.4	3.5
90°-100°	8.8	1.2
100°-110°	2.2	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°	195.0	25.7
0°-40°	319.9	42.2
0°-60°	569.3	75.1
0°-90°	746.6	98.5
90°-120°	11.4	1.5
90°-150°	11.4	1.5
90°-180°	11.0	1.5
0°-180°	758.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	251	251	251	251	251	
5°	250	250	249	250	250	24
15°	241	241	240	242	242	68
25°	223	223	223	225	226	103
35°	197	198	199	201	202	124
45°	166	168	169	171	171	128
55°	130	131	134	136	136	116
65°	89	91	94	98	99	88
75°	45	48	55	61	64	48
85°	8	14	25	33	36	10
90°	0	5	15	22	25	0
95°	0	1	8	14	16	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°	250.7	250.7	250.7	250.7	250.7
2.5°	251.0	250.6	249.5	250.6	250.6
5°	250.2	249.7	248.6	249.8	249.8
7.5°	248.5	248.3	247.3	248.7	248.7
10°	246.6	246.5	245.7	247.2	247.2
12.5°	243.8	244.1	243.3	244.7	244.9
15°	240.7	241.1	240.4	241.8	241.7
17.5°	237.2	237.4	236.9	238.5	238.4
20°	232.9	233.1	232.8	234.4	234.6
22.5°	228.1	228.5	228.4	230.1	230.5
25°	223.0	223.2	223.4	225.3	225.6
27.5°	217.4	217.7	218.1	219.8	220.1
30°	211.2	211.7	212.2	213.9	214.4
32.5°	204.7	205.2	205.8	208.1	208.3
35°	197.4	198.3	199.1	201.1	201.9
37.5°	190.1	191.2	192.0	194.1	194.7
40°	182.3	183.4	184.7	186.9	187.3
42.5°	174.2	175.5	177.0	179.0	179.7
45°	166.1	167.5	168.9	170.6	171.4
47.5°	157.3	158.7	160.4	162.3	162.8
50°	148.2	149.9	151.6	153.4	154.4
52.5°	138.8	140.9	142.9	144.8	145.7
55°	129.6	131.1	133.6	135.5	136.4
57.5°	120.0	121.3	123.5	126.7	127.2
60°	110.3	111.5	113.7	116.3	117.4
62.5°	99.5	101.1	103.5	106.8	107.7
65°	89.1	90.6	93.7	97.5	99.0
67.5°	79.0	79.5	83.5	87.4	89.9
70°	67.0	69.0	73.7	78.5	80.4
72.5°	56.7	58.7	63.9	69.5	71.9
75°	45.1	47.9	54.8	61.4	63.7
77.5°	34.9	37.9	46.6	53.2	55.8
80°	24.3	29.1	38.5	46.0	48.9
82.5°	15.3	21.2	31.3	39.1	41.6
85°	7.8	14.4	24.8	32.7	35.6
87.5°	2.1	9.3	19.3	26.9	29.8
90°	0.1	5.4	14.6	21.9	24.6
92.5°	0.1	3.0	10.9	17.4	20.2
95°	0.1	1.4	7.6	13.7	15.8
97.5°	0.1	0.6	5.2	10.3	12.5
100°	0.1	0.3	3.3	7.5	9.3
102.5°	0.1	0.2	2.1	5.4	6.9
105°	0.1	0.2	1.2	3.7	4.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.2	0.2	0.2	1.0	1.5
115°	0.2	0.2	0.2	0.7	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	2.5	3.4
110°	0.2	0.2	0.4	1.5	2.2



(END OF REPORT)