

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: P580453

Luminaire Tested: **HVSL4-1-LD4-2LO-35-UNV-O-EDD-90**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580453
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-LD4-2LO-35-UNV-O-EDD-90
Description: 1 FOOT, 4INCH WIDE, HVSL LED LUMINAIRE, WITH 3500K, 90 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

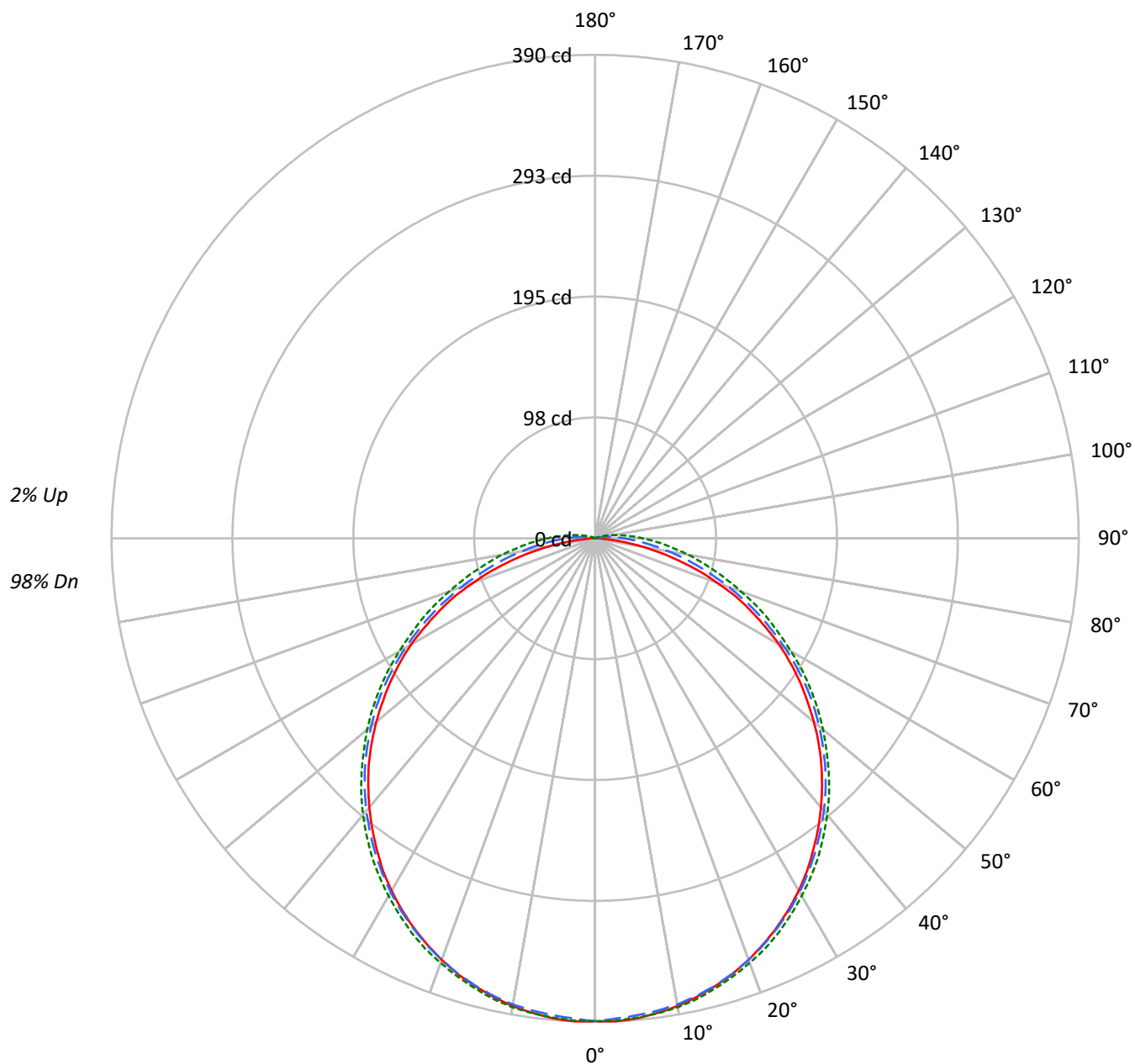
Lumens per Lamp: N/A
Luminaire Lumens: 1178.1 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.17')
CIE Type: Direct

Input Watts (W): 11.6
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°	12581	12581	12581
5°	12422	12026	12053
10°	12206	11558	11577
15°	11969	11089	11076
20°	11725	10612	10597
25°	11455	10141	10133
30°	11167	9663	9641
35°	10830	9170	9162
40°	10477	8669	8647
45°	10103	8147	8110
50°	9652	7581	7551
55°	9158	6985	6963
60°	8590	6282	6312
65°	7790	5536	5670
70°	6748	4710	4967
75°	5392	3852	4309
80°	3613	3032	3684
85°	1543	2233	3056



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.9	3.1
10°-20°	105.8	9.0
20°-30°	160.5	13.6
30°-40°	194.0	16.5
40°-50°	202.5	17.2
50°-60°	185.1	15.7
60°-70°	144.3	12.2
70°-80°	90.3	7.7
80°-90°	41.0	3.5
90°-100°	13.8	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°	303.1	25.7
0°-40°	497.1	42.2
0°-60°	884.7	75.1
0°-90°	1160.3	98.5
90°-120°	17.8	1.5
90°-150°	17.8	1.5
90°-180°	18.0	1.5
0°-180°	1178.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	390	390	390	390	390	
5°	389	388	386	388	388	37
15°	374	375	374	376	376	106
25°	346	347	347	350	351	160
35°	307	308	309	313	314	192
45°	258	260	262	265	266	199
55°	201	204	208	211	212	180
65°	138	141	146	152	154	137
75°	70	74	85	95	99	75
85°	12	22	38	51	55	15
90°	0	8	23	34	38	0
95°	0	2	12	21	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°	389.6	389.6	389.6	389.6	389.6
2.5°	390.1	389.5	387.8	389.5	389.4
5°	388.8	388.0	386.3	388.1	388.1
7.5°	386.2	385.9	384.4	386.5	386.5
10°	383.2	383.1	381.8	384.1	384.2
12.5°	379.0	379.3	378.1	380.3	380.6
15°	374.0	374.6	373.6	375.7	375.7
17.5°	368.6	368.9	368.2	370.6	370.5
20°	361.9	362.3	361.8	364.3	364.5
22.5°	354.4	355.1	355.0	357.6	358.3
25°	346.5	346.8	347.2	350.1	350.7
27.5°	337.8	338.3	338.9	341.6	342.1
30°	328.3	329.0	329.7	332.5	333.2
32.5°	318.2	318.9	319.8	323.4	323.8
35°	306.8	308.1	309.4	312.6	313.8
37.5°	295.4	297.1	298.3	301.6	302.6
40°	283.3	285.1	287.0	290.5	291.2
42.5°	270.8	272.8	275.1	278.2	279.3
45°	258.1	260.4	262.5	265.1	266.4
47.5°	244.4	246.7	249.3	252.2	253.0
50°	230.3	232.9	235.7	238.4	239.9
52.5°	215.7	219.0	222.1	225.0	226.4
55°	201.4	203.8	207.6	210.6	212.0
57.5°	186.5	188.6	192.0	196.9	197.7
60°	171.4	173.2	176.7	180.8	182.4
62.5°	154.7	157.1	160.8	166.0	167.4
65°	138.4	140.8	145.7	151.5	153.8
67.5°	122.7	123.5	129.8	135.8	139.7
70°	104.2	107.3	114.5	122.0	124.9
72.5°	88.2	91.3	99.3	108.0	111.7
75°	70.1	74.4	85.2	95.4	99.0
77.5°	54.2	59.0	72.4	82.7	86.8
80°	37.8	45.3	59.9	71.5	76.0
82.5°	23.8	33.0	48.6	60.7	64.7
85°	12.1	22.4	38.5	50.9	55.4
87.5°	3.2	14.5	29.9	41.8	46.4
90°	0.1	8.4	22.7	34.1	38.2
92.5°	0.1	4.7	16.9	27.1	31.3
95°	0.1	2.2	11.8	21.3	24.6
97.5°	0.1	0.9	8.1	16.1	19.4
100°	0.1	0.5	5.1	11.7	14.5
102.5°	0.2	0.3	3.2	8.4	10.7
105°	0.2	0.3	1.9	5.7	7.6



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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	5.2
110°	0.3	0.3	0.6	2.4	3.5



(END OF REPORT)