

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: P580430

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

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580430
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-LD4-1LO-35-UNV-O-EDD
Description: 1 FOOT, 4INCH WIDE, HVSL LED LUMINAIRE, WITH 3500K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

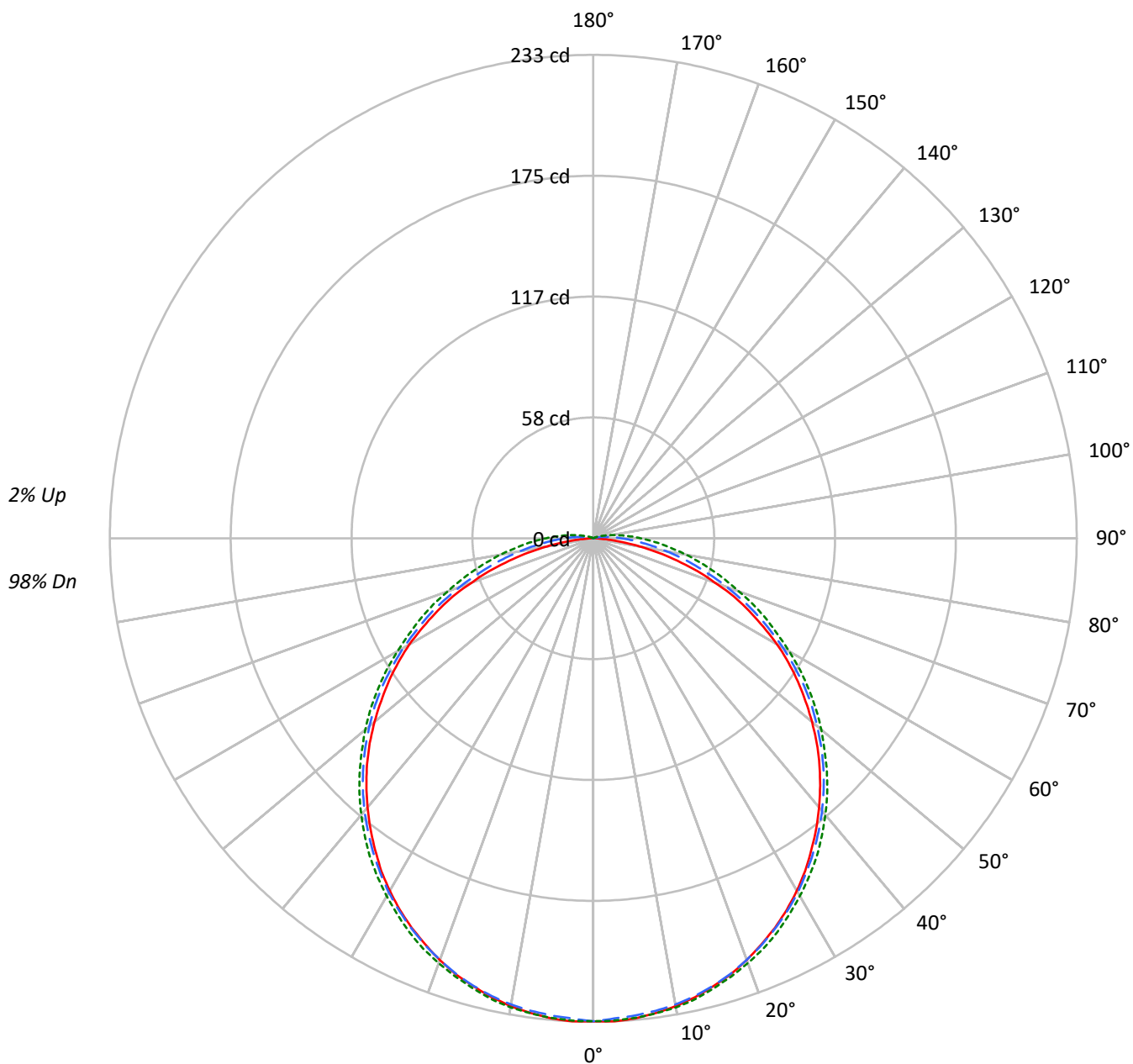
Lumens per Lamp: N/A
Luminaire Lumens: 704.0 lumens
Efficiency: N/A
Efficacy: 121.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.17')
CIE Type: Direct

Input Watts (W): 5.8
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°	7518	7518	7518
5°	7422	7188	7205
10°	7294	6908	6918
15°	7152	6628	6618
20°	7008	6341	6335
25°	6847	6061	6056
30°	6673	5777	5761
35°	6471	5480	5477
40°	6261	5180	5167
45°	6036	4869	4847
50°	5767	4529	4514
55°	5475	4172	4161
60°	5132	3754	3772
65°	4655	3309	3388
70°	4028	2813	2967
75°	3223	2301	2577
80°	2160	1812	2201
85°	918	1334	1826



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.0	3.1
10°-20°	63.2	9.0
20°-30°	95.9	13.6
30°-40°	116.0	16.5
40°-50°	121.0	17.2
50°-60°	110.6	15.7
60°-70°	86.2	12.2
70°-80°	53.9	7.7
80°-90°	24.5	3.5
90°-100°	8.2	1.2
100°-110°	2.1	0.3
110°-120°	0.3	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°	181.1	25.7
0°-40°	297.1	42.2
0°-60°	528.7	75.1
0°-90°	693.4	98.5
90°-120°	10.6	1.5
90°-150°	10.6	1.5
90°-180°	11.0	1.6
0°-180°	704.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	233	233	233	233	233	
5°	232	232	231	232	232	22
15°	224	224	223	225	224	63
25°	207	207	208	209	210	95
35°	183	184	185	187	188	115
45°	154	156	157	158	159	119
55°	120	122	124	126	127	108
65°	83	84	87	90	92	82
75°	42	44	51	57	59	45
85°	7	13	23	30	33	9
90°	0	5	14	20	23	0
95°	0	1	7	13	15	0
105°	0	0	1	3	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°	232.8	232.8	232.8	232.8	232.8
2.5°	233.1	232.8	231.7	232.8	232.7
5°	232.3	231.9	230.9	232.0	232.0
7.5°	230.8	230.6	229.7	231.0	231.0
10°	229.0	228.9	228.2	229.5	229.6
12.5°	226.5	226.7	226.0	227.3	227.5
15°	223.5	223.9	223.3	224.6	224.5
17.5°	220.3	220.5	220.1	221.5	221.4
20°	216.3	216.5	216.2	217.7	217.9
22.5°	211.8	212.2	212.1	213.7	214.1
25°	207.1	207.3	207.5	209.2	209.6
27.5°	201.9	202.2	202.5	204.1	204.5
30°	196.2	196.6	197.1	198.7	199.1
32.5°	190.1	190.6	191.1	193.3	193.5
35°	183.3	184.2	184.9	186.8	187.6
37.5°	176.5	177.6	178.3	180.3	180.9
40°	169.3	170.4	171.5	173.6	174.0
42.5°	161.8	163.0	164.4	166.3	166.9
45°	154.2	155.6	156.9	158.4	159.2
47.5°	146.1	147.4	149.0	150.7	151.2
50°	137.6	139.2	140.8	142.5	143.4
52.5°	128.9	130.9	132.7	134.5	135.3
55°	120.4	121.8	124.0	125.9	126.7
57.5°	111.5	112.7	114.7	117.7	118.1
60°	102.4	103.5	105.6	108.0	109.0
62.5°	92.4	93.9	96.1	99.2	100.1
65°	82.7	84.1	87.1	90.5	91.9
67.5°	73.3	73.8	77.6	81.2	83.5
70°	62.2	64.1	68.4	72.9	74.6
72.5°	52.7	54.6	59.3	64.5	66.7
75°	41.9	44.5	50.9	57.0	59.2
77.5°	32.4	35.2	43.3	49.4	51.9
80°	22.6	27.1	35.8	42.7	45.4
82.5°	14.2	19.7	29.0	36.3	38.6
85°	7.2	13.4	23.0	30.4	33.1
87.5°	1.9	8.7	17.9	25.0	27.7
90°	0.1	5.0	13.6	20.4	22.8
92.5°	0.1	2.8	10.1	16.2	18.7
95°	0.1	1.3	7.0	12.7	14.7
97.5°	0.1	0.5	4.8	9.6	11.6
100°	0.1	0.3	3.1	7.0	8.7
102.5°	0.1	0.2	1.9	5.0	6.4
105°	0.1	0.2	1.2	3.4	4.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.2	0.2	0.2	0.9	1.4
115°	0.2	0.2	0.2	0.6	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	2.3	3.1
110°	0.2	0.2	0.4	1.4	2.1



(END OF REPORT)