

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: P580422

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

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580422
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-LD4-1HI-35-UNV-O-EDD
Description: 1 FOOT, 4INCH WIDE, HVSL LED LUMINAIRE, WITH 3500K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

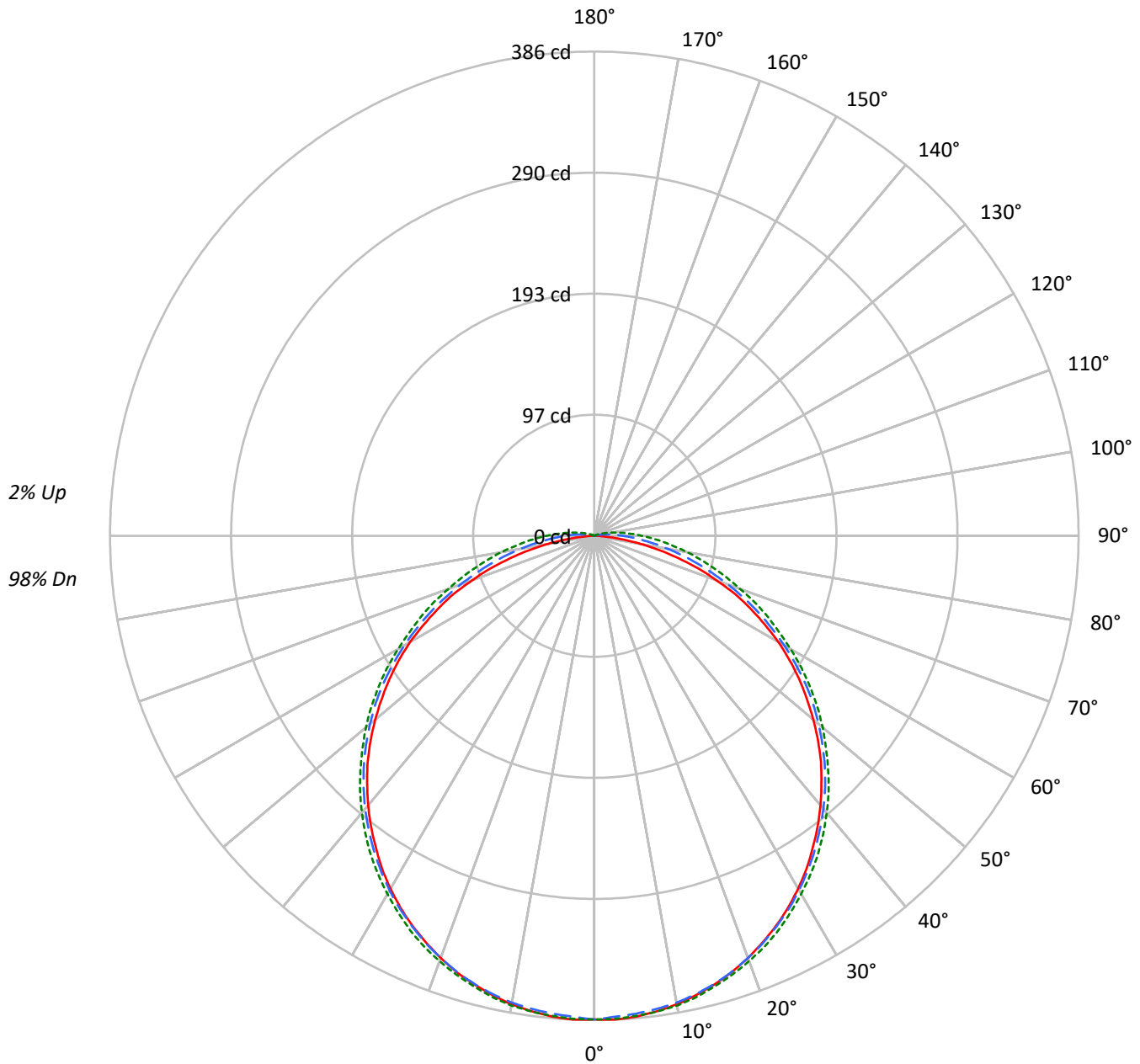
Lumens per Lamp: N/A
Luminaire Lumens: 1166.0 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.17')
CIE Type: Direct

Input Watts (W): 10.8
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°	12452	12452	12452
5°	12294	11904	11932
10°	12082	11440	11459
15°	11847	10976	10961
20°	11605	10503	10489
25°	11340	10036	10029
30°	11051	9566	9542
35°	10717	9078	9069
40°	10373	8581	8558
45°	10001	8063	8025
50°	9551	7504	7476
55°	9067	6914	6890
60°	8499	6218	6247
65°	7711	5479	5615
70°	6676	4664	4916
75°	5338	3816	4266
80°	3585	3001	3645
85°	1530	2209	3023



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.5	3.1
10°-20°	104.7	9.0
20°-30°	158.8	13.6
30°-40°	192.1	16.5
40°-50°	200.4	17.2
50°-60°	183.2	15.7
60°-70°	142.8	12.3
70°-80°	89.4	7.7
80°-90°	40.6	3.5
90°-100°	13.6	1.2
100°-110°	3.4	0.3
110°-120°	0.5	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°	300.0	25.7
0°-40°	492.1	42.2
0°-60°	875.7	75.1
0°-90°	1148.5	98.5
90°-120°	17.6	1.5
90°-150°	17.6	1.5
90°-180°	18.0	1.5
0°-180°	1166.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	386	386	386	386	386	
5°	385	384	382	384	384	37
15°	370	371	370	372	372	104
25°	343	343	344	347	347	158
35°	304	305	306	309	311	190
45°	256	258	260	262	264	197
55°	199	202	206	208	210	178
65°	137	139	144	150	152	136
75°	69	74	84	94	98	74
85°	12	22	38	50	55	15
90°	0	8	22	34	38	0
95°	0	2	12	21	24	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°	385.6	385.6	385.6	385.6	385.6
2.5°	386.1	385.6	383.8	385.6	385.5
5°	384.8	384.1	382.4	384.2	384.2
7.5°	382.3	382.0	380.5	382.6	382.6
10°	379.3	379.2	377.9	380.2	380.3
12.5°	375.1	375.5	374.3	376.5	376.7
15°	370.2	370.8	369.8	371.9	371.8
17.5°	364.8	365.2	364.5	366.8	366.7
20°	358.2	358.6	358.1	360.6	360.8
22.5°	350.8	351.5	351.4	353.9	354.6
25°	343.0	343.3	343.6	346.6	347.1
27.5°	334.4	334.8	335.5	338.1	338.6
30°	324.9	325.6	326.4	329.1	329.8
32.5°	314.9	315.6	316.6	320.1	320.5
35°	303.6	305.0	306.3	309.4	310.6
37.5°	292.4	294.1	295.3	298.6	299.6
40°	280.5	282.2	284.1	287.5	288.2
42.5°	268.0	270.0	272.3	275.4	276.5
45°	255.5	257.7	259.8	262.4	263.6
47.5°	241.9	244.2	246.7	249.6	250.5
50°	227.9	230.5	233.3	236.0	237.5
52.5°	213.5	216.7	219.8	222.7	224.1
55°	199.4	201.7	205.5	208.5	209.8
57.5°	184.6	186.6	190.0	194.9	195.6
60°	169.6	171.5	174.9	178.9	180.5
62.5°	153.1	155.5	159.2	164.3	165.7
65°	137.0	139.4	144.2	149.9	152.3
67.5°	121.5	122.3	128.5	134.5	138.3
70°	103.1	106.2	113.4	120.7	123.6
72.5°	87.3	90.4	98.3	106.9	110.5
75°	69.4	73.6	84.4	94.5	98.0
77.5°	53.6	58.4	71.6	81.8	85.9
80°	37.5	44.8	59.3	70.7	75.2
82.5°	23.5	32.6	48.1	60.1	64.0
85°	12.0	22.2	38.1	50.4	54.8
87.5°	3.2	14.4	29.6	41.4	45.9
90°	0.1	8.3	22.5	33.7	37.8
92.5°	0.1	4.6	16.7	26.8	31.0
95°	0.1	2.2	11.6	21.1	24.4
97.5°	0.1	0.9	8.0	15.9	19.2
100°	0.1	0.5	5.1	11.5	14.4
102.5°	0.2	0.3	3.2	8.3	10.5
105°	0.2	0.3	1.9	5.6	7.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.3	0.3	0.4	1.5	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	3.8	5.2
110°	0.3	0.3	0.6	2.4	3.5



(END OF REPORT)