

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: P580446

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

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580446
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-LD4-2HI-35-UNV-O-EDD
Description: 1 FOOT, 4INCH WIDE, HVSL LED LUMINAIRE, WITH 3500K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

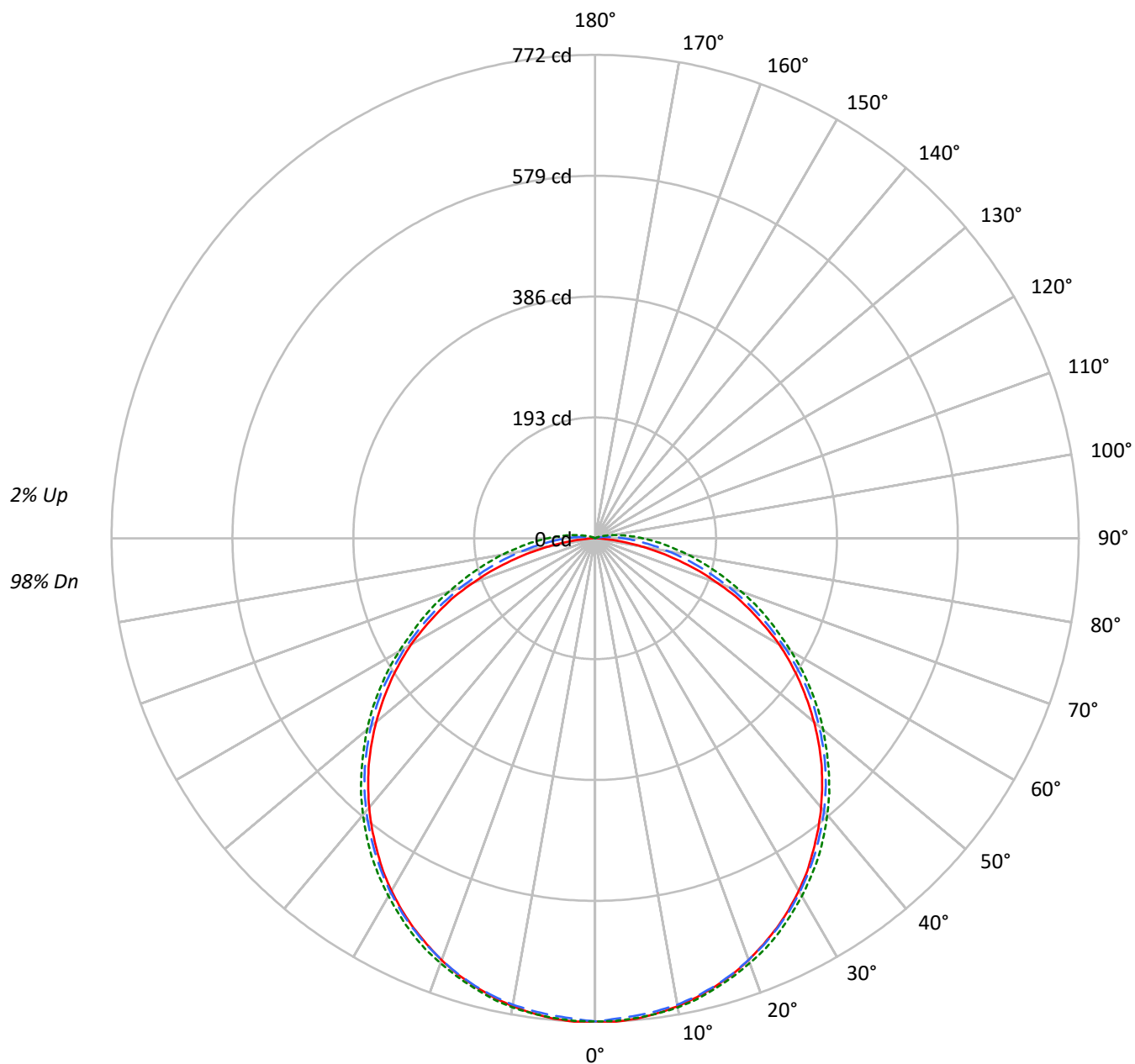
Lumens per Lamp: N/A
Luminaire Lumens: 2333.0 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.17')
CIE Type: Direct

Input Watts (W): 21.6
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°	24916	24916	24916
5°	24601	23818	23873
10°	24174	22892	22928
15°	23703	21964	21933
20°	23220	21015	20990
25°	22689	20084	20066
30°	22112	19139	19093
35°	21445	18161	18146
40°	20754	17168	17121
45°	20006	16135	16059
50°	19111	15014	14955
55°	18139	13831	13787
60°	17009	12443	12504
65°	15428	10961	11234
70°	13359	9329	9839
75°	10676	7632	8536
80°	7160	6003	7291
85°	3061	4419	6052



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.0	3.1
10°-20°	209.5	9.0
20°-30°	317.8	13.6
30°-40°	384.3	16.5
40°-50°	401.0	17.2
50°-60°	366.6	15.7
60°-70°	285.8	12.3
70°-80°	178.8	7.7
80°-90°	81.2	3.5
90°-100°	27.2	1.2
100°-110°	6.8	0.3
110°-120°	1.1	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°	600.3	25.7
0°-40°	984.6	42.2
0°-60°	1752.1	75.1
0°-90°	2297.9	98.5
90°-120°	35.1	1.5
90°-150°	35.1	1.5
90°-180°	35.0	1.5
0°-180°	2333.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	772	772	772	772	772	
5°	770	768	765	769	769	73
15°	741	742	740	744	744	209
25°	686	687	688	693	694	316
35°	608	610	613	619	622	380
45°	511	516	520	525	528	394
55°	399	404	411	417	420	356
65°	274	279	288	300	305	271
75°	139	147	169	189	196	148
85°	24	44	76	101	110	30
90°	0	17	45	68	76	1
95°	0	4	23	42	49	0
105°	0	0	4	11	15	0
115°	0	0	1	2	3	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°	771.6	771.6	771.6	771.6	771.6
2.5°	772.5	771.4	768.0	771.4	771.3
5°	770.0	768.5	765.1	768.7	768.7
7.5°	764.9	764.3	761.2	765.4	765.4
10°	758.9	758.7	756.2	760.7	760.9
12.5°	750.5	751.2	748.9	753.2	753.8
15°	740.7	742.0	740.0	744.1	744.0
17.5°	730.0	730.7	729.2	734.0	733.8
20°	716.7	717.6	716.5	721.4	722.0
22.5°	701.9	703.2	703.0	708.1	709.6
25°	686.3	686.9	687.6	693.4	694.5
27.5°	669.0	669.9	671.2	676.5	677.6
30°	650.1	651.6	653.0	658.5	659.9
32.5°	630.1	631.6	633.4	640.5	641.2
35°	607.5	610.3	612.8	619.0	621.5
37.5°	585.0	588.4	590.8	597.4	599.4
40°	561.2	564.6	568.4	575.3	576.6
42.5°	536.2	540.2	544.8	551.0	553.2
45°	511.1	515.7	519.9	525.0	527.5
47.5°	484.0	488.6	493.7	499.5	501.1
50°	456.0	461.3	466.8	472.2	475.1
52.5°	427.3	433.6	439.8	445.7	448.4
55°	398.9	403.6	411.1	417.1	419.8
57.5°	369.4	373.4	380.2	390.0	391.4
60°	339.4	343.1	350.0	358.0	361.3
62.5°	306.3	311.2	318.5	328.7	331.6
65°	274.1	278.9	288.5	300.0	304.7
67.5°	243.0	244.7	257.0	269.0	276.7
70°	206.3	212.5	226.8	241.6	247.4
72.5°	174.6	180.8	196.6	213.9	221.2
75°	138.8	147.3	168.8	189.0	196.1
77.5°	107.3	116.8	143.3	163.7	171.9
80°	74.9	89.7	118.6	141.5	150.4
82.5°	47.1	65.3	96.2	120.2	128.1
85°	24.0	44.4	76.2	100.8	109.7
87.5°	6.4	28.7	59.3	82.8	91.9
90°	0.2	16.6	44.9	67.5	75.7
92.5°	0.2	9.3	33.5	53.7	62.0
95°	0.2	4.4	23.3	42.2	48.7
97.5°	0.2	1.8	16.0	31.8	38.4
100°	0.2	0.9	10.2	23.1	28.7
102.5°	0.4	0.5	6.4	16.6	21.1
105°	0.4	0.5	3.8	11.3	15.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.5	0.5	0.7	3.1	4.5
115°	0.5	0.5	0.7	2.0	2.9
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°	0.4	0.5	2.2	7.6	10.4
110°	0.5	0.5	1.3	4.7	6.9



(END OF REPORT)