

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: P580328

Luminaire Tested: **HVSL2-2-LD4-HI-40-UNV-O-EDD**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580328
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: HVSL2-2-LD4-HI-40-UNV-O-EDD
Description: 2 FOOT, 2INCH WIDE, HVSL LED LUMINAIRE, WITH 4000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

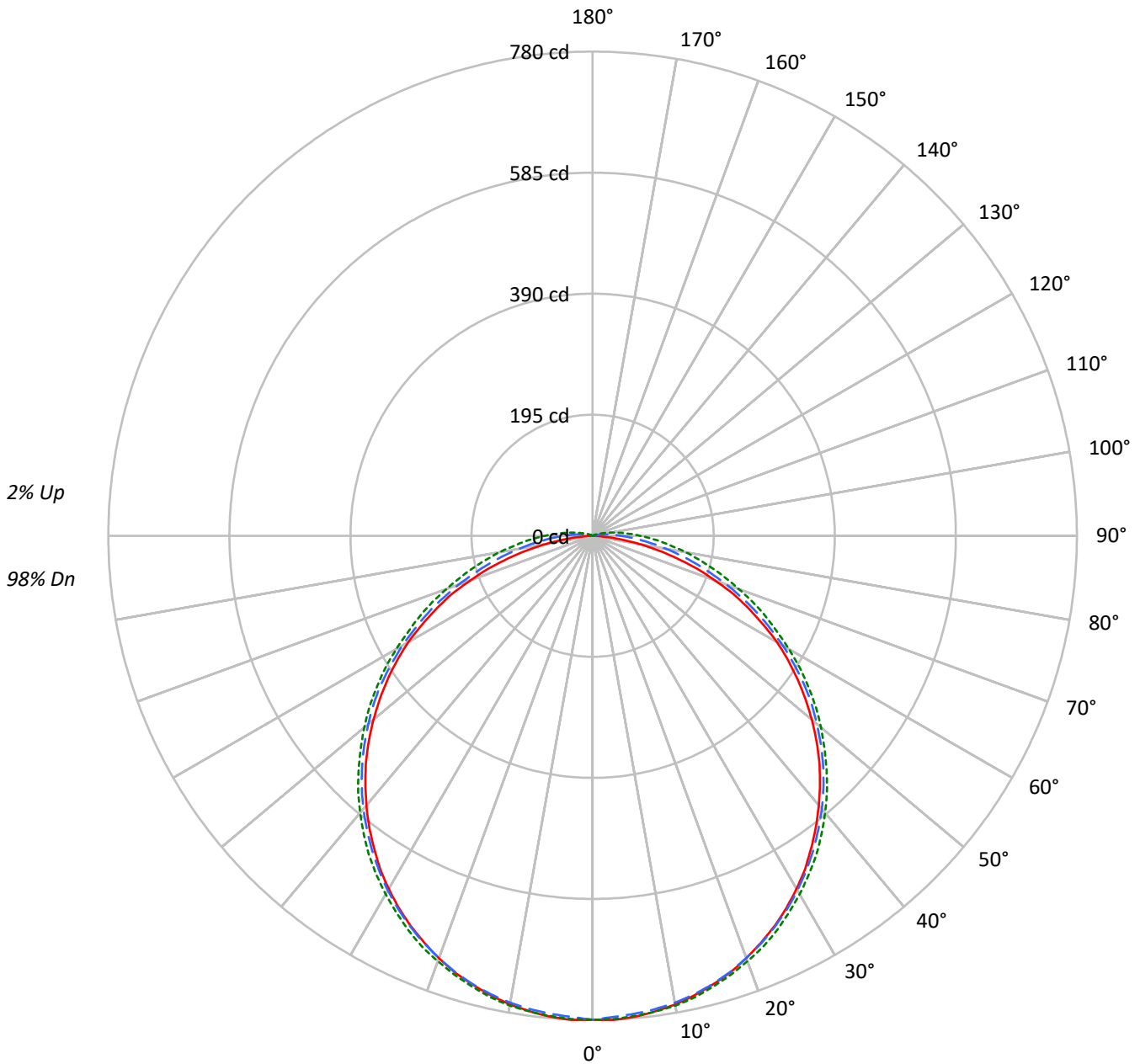
Lumens per Lamp: N/A
Luminaire Lumens: 2357.0 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 2' x H: 0.17')
CIE Type: Direct

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									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
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°	25175	25175	25175
5°	25033	23480	23148
10°	24776	22067	21427
15°	24470	20736	19816
20°	24150	19452	18376
25°	23782	18237	17047
30°	23366	17054	15759
35°	22862	15884	14557
40°	22335	14735	13353
45°	21768	13580	12167
50°	21053	12384	11001
55°	20275	11164	9832
60°	19352	9813	8627
65°	17949	8427	7478
70°	16010	6969	6295
75°	13342	5512	5222
80°	9559	4168	4236
85°	4611	2924	3302



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.8	3.1
10°-20°	211.6	9.0
20°-30°	321.1	13.6
30°-40°	388.2	16.5
40°-50°	405.1	17.2
50°-60°	370.4	15.7
60°-70°	288.7	12.2
70°-80°	180.6	7.7
80°-90°	82.0	3.5
90°-100°	27.5	1.2
100°-110°	6.9	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°	606.4	25.7
0°-40°	994.7	42.2
0°-60°	1770.2	75.1
0°-90°	2321.5	98.5
90°-120°	35.5	1.5
90°-150°	35.5	1.5
90°-180°	36.0	1.5
0°-180°	2357.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	780	780	780	780	780	
5°	778	776	773	777	777	74
15°	748	750	748	752	752	211
25°	693	694	695	700	702	320
35°	614	616	619	625	628	384
45°	516	521	525	530	533	398
55°	403	408	415	421	424	360
65°	277	282	292	303	308	274
75°	140	149	170	191	198	149
85°	24	45	77	102	111	31
90°	0	17	45	68	76	1
95°	0	4	24	43	49	0
105°	0	1	4	11	15	0
115°	1	1	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	0



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CATALOG NUMBER: HVSL2-2-LD4-HI-40-UNV-O-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	779.6	779.6	779.6	779.6	779.6
2.5°	780.5	779.4	775.9	779.4	779.2
5°	777.9	776.4	772.9	776.6	776.6
7.5°	772.8	772.2	769.1	773.3	773.3
10°	766.7	766.5	763.9	768.5	768.7
12.5°	758.2	759.0	756.6	761.0	761.5
15°	748.3	749.6	747.6	751.8	751.6
17.5°	737.5	738.2	736.7	741.5	741.3
20°	724.1	725.0	723.9	728.8	729.4
22.5°	709.2	710.5	710.3	715.4	716.9
25°	693.4	693.9	694.7	700.5	701.6
27.5°	675.9	676.8	678.1	683.4	684.5
30°	656.8	658.3	659.7	665.2	666.7
32.5°	636.6	638.1	639.9	647.1	647.8
35°	613.8	616.5	619.1	625.4	627.9
37.5°	591.0	594.5	596.9	603.5	605.5
40°	566.9	570.4	574.3	581.3	582.6
42.5°	541.8	545.8	550.4	556.6	558.8
45°	516.4	521.0	525.2	530.4	532.9
47.5°	489.0	493.6	498.8	504.6	506.3
50°	460.7	466.0	471.6	477.1	480.0
52.5°	431.7	438.1	444.4	450.2	453.0
55°	403.0	407.8	415.3	421.4	424.1
57.5°	373.2	377.3	384.1	394.0	395.5
60°	342.9	346.6	353.6	361.7	365.0
62.5°	309.5	314.4	321.8	332.1	335.0
65°	276.9	281.7	291.5	303.0	307.8
67.5°	245.5	247.2	259.7	271.8	279.5
70°	208.4	214.6	229.2	244.0	249.9
72.5°	176.4	182.7	198.7	216.1	223.5
75°	140.2	148.9	170.5	190.9	198.1
77.5°	108.4	118.0	144.8	165.4	173.7
80°	75.7	90.6	119.8	143.0	152.0
82.5°	47.6	66.0	97.2	121.5	129.4
85°	24.3	44.8	77.0	101.8	110.8
87.5°	6.4	29.0	59.9	83.6	92.8
90°	0.2	16.7	45.4	68.2	76.4
92.5°	0.2	9.4	33.8	54.2	62.7
95°	0.2	4.4	23.5	42.6	49.3
97.5°	0.2	1.8	16.2	32.2	38.8
100°	0.2	0.9	10.3	23.3	29.0
102.5°	0.4	0.6	6.4	16.7	21.3
105°	0.4	0.6	3.9	11.4	15.3



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CATALOG NUMBER: HVSL2-2-LD4-HI-40-UNV-O-EDD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.6	0.6	0.7	3.1	4.6
115°	0.6	0.6	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	0.6	2.2	7.7	10.5
110°	0.6	0.6	1.3	4.8	7.0



(END OF REPORT)