

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: AMETRIX

Report Number: P179422

Luminaire Tested: **LC-1-40K-1-D10-120-24-00**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P179422  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26063)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: AMETRIX  
Catalog Number: LC-1-40K-1-D10-120-24-00  
Description: AMETRIX ARCHITECTURAL LED COVE LUMINAIRE.  
24-INCH MODULE WITH CLEAR LENS  
Light Source: (56)4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1503.1 lumens  
Efficiency: N/A  
Efficacy: 120.2 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 0.1' x H: 0.06')  
CIE Type: Indirect

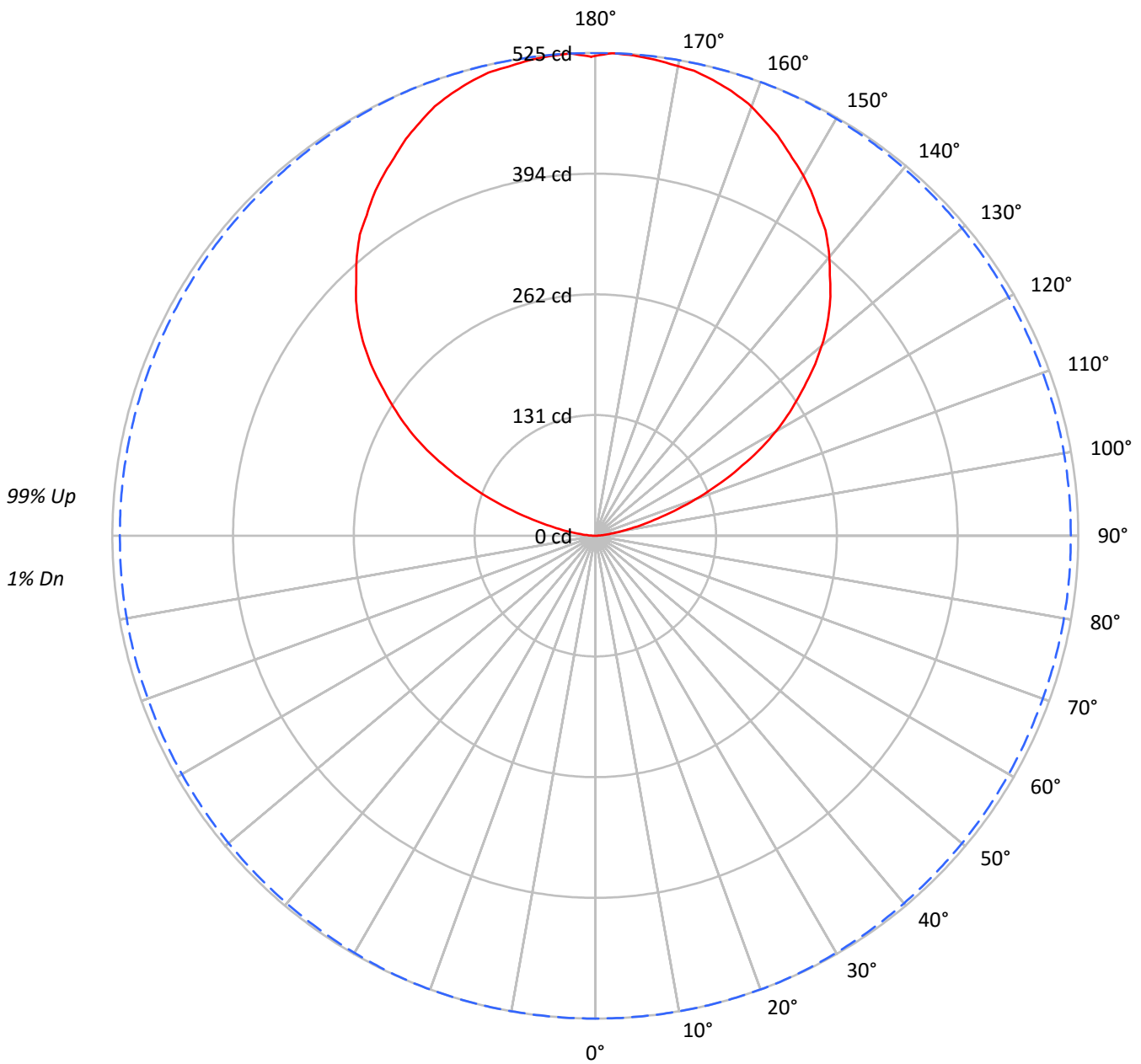
Input Watts (W): 12.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P179422

CATALOG NUMBER: LC-1-40K-1-D10-120-24-00

### Luminous Intensity Polar Plot



— Vertical Plane Through 0° Lateral      - - - Horizontal Cone Through 177.5° Vertical



TEST NUMBER: P179422

CATALOG NUMBER: LC-1-40K-1-D10-120-24-00

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	95	95	95	95	82	82	82	82	56	56	56	32	32	32	11	11	11	1
1	87	82	79	76	74	71	68	65	48	47	45	28	27	26	9	9	9	0
2	79	72	66	61	67	62	57	53	42	39	37	24	23	22	8	8	7	0
3	72	63	56	51	61	54	49	44	37	34	31	22	20	18	7	6	6	0
4	65	55	48	43	56	48	42	37	33	29	26	19	17	15	6	6	5	0
5	60	49	42	36	51	42	36	31	29	25	22	17	15	13	6	5	4	0
6	55	44	36	31	47	38	31	27	26	22	19	15	13	11	5	4	4	0
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3	0
8	46	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3	0
9	43	32	25	20	37	27	22	18	19	15	13	11	9	8	4	3	2	0
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2	0

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	0	0	0
5°	0	0	0
10°	0	0	0
15°	0	0	0
20°	0	0	0
25°	0	0	0
30°	0	0	0
35°	0	0	0
40°	0	0	0
45°	0	0	0
50°	0	0	0
55°	0	0	0
60°	0	0	0
65°	0	125	229
70°	0	136	278
75°	0	232	733
80°	0	430	1289
85°	0	690	2664



TEST NUMBER: P179422

CATALOG NUMBER: LC-1-40K-1-D10-120-24-00

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	0.0	0.0
10°-20°	0.0	0.0
20°-30°	0.0	0.0
30°-40°	0.0	0.0
40°-50°	0.0	0.0
50°-60°	0.0	0.0
60°-70°	0.9	0.1
70°-80°	2.6	0.2
80°-90°	6.2	0.4
90°-100°	21.1	1.4
100°-110°	92.6	6.2
110°-120°	180.6	12.0
120°-130°	247.1	16.4
130°-140°	278.2	18.5
140°-150°	264.5	17.6
150°-160°	217.6	14.5
160°-170°	142.3	9.5
170°-180°	49.4	3.3
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	9.7	0.6
90°-120°	294.3	19.6
90°-150°	1084.1	72.1
90°-180°	1493.0	99.3
0°-180°	1503.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	0	0	0	0	0	
5°	0	0	0	0	0	0
15°	0	0	0	0	0	0
25°	0	0	0	0	0	0
35°	0	0	0	0	0	0
45°	0	0	0	0	0	0
55°	0	0	0	0	0	0
65°	0	1	2	2	2	0
75°	0	1	3	4	4	0
85°	0	4	7	7	6	0
90°	0	9	11	9	9	0
95°	9	21	19	15	14	13
105°	70	79	98	100	95	77
115°	177	180	181	187	189	175
125°	279	277	282	274	279	249
135°	364	361	362	362	362	281
145°	428	420	422	424	422	268
155°	478	479	469	470	468	220
165°	512	510	506	496	492	144
175°	524	524	520	516	514	50
180°	521	521	521	521	521	



TEST NUMBER: P179422

CATALOG NUMBER: LC-1-40K-1-D10-120-24-00

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	0.0	0.0	0.0	0.0	0.0
2.5°	0.0	0.0	0.0	0.0	0.0
5°	0.0	0.0	0.0	0.0	0.0
7.5°	0.0	0.0	0.0	0.0	0.0
10°	0.0	0.0	0.0	0.0	0.0
12.5°	0.0	0.0	0.0	0.0	0.0
15°	0.0	0.0	0.0	0.0	0.0
17.5°	0.0	0.0	0.0	0.0	0.0
20°	0.0	0.0	0.0	0.0	0.0
22.5°	0.0	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0	0.0
27.5°	0.0	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0	0.0
32.5°	0.0	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0
65°	0.0	1.0	2.0	2.0	2.0
67.5°	0.0	1.0	2.0	2.0	2.0
70°	0.0	1.0	2.0	2.0	2.0
72.5°	0.0	1.0	2.0	3.1	3.1
75°	0.0	1.0	3.1	4.1	4.1
77.5°	0.0	1.0	4.1	4.1	4.1
80°	0.0	2.0	5.1	5.1	5.1
82.5°	0.0	2.0	6.1	6.1	5.1
85°	0.0	4.1	7.1	7.1	6.1
87.5°	0.0	6.1	9.2	8.2	8.2
90°	0.0	9.2	11.2	9.2	9.2
92.5°	3.1	14.3	14.3	12.3	11.2
95°	9.2	21.4	19.4	15.3	14.3
97.5°	19.4	32.7	27.6	20.4	19.4
100°	32.7	45.9	45.9	31.6	27.6
102.5°	50.0	61.3	73.5	58.2	48.0
105°	70.4	78.6	98.0	100.1	94.9
107.5°	94.9	100.1	115.4	128.6	132.7
110°	121.5	125.6	135.8	145.0	147.0



TEST NUMBER: P179422

CATALOG NUMBER: LC-1-40K-1-D10-120-24-00

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	149.1	154.2	157.2	168.5	168.5
115°	176.6	179.7	180.7	186.8	188.9
117.5°	205.2	205.2	203.2	207.3	209.3
120°	231.8	229.7	225.6	231.8	230.7
122.5°	255.2	253.2	252.2	255.2	256.3
125°	278.7	276.7	281.8	273.6	278.7
127.5°	303.2	298.1	304.2	292.0	293.0
130°	325.7	320.6	324.7	317.5	313.4
132.5°	346.1	341.0	344.1	343.0	336.9
135°	364.5	361.4	362.4	362.4	362.4
137.5°	380.8	376.7	379.8	379.8	377.7
140°	399.2	392.0	392.0	394.1	394.1
142.5°	415.5	405.3	407.4	409.4	407.4
145°	427.8	419.6	421.6	423.7	421.6
147.5°	442.1	435.9	437.0	433.9	434.9
150°	454.3	450.2	449.2	446.1	445.1
152.5°	465.5	466.6	461.5	457.4	456.4
155°	477.8	478.8	468.6	469.6	467.6
157.5°	488.0	488.0	475.8	479.8	478.8
160°	498.2	496.2	484.9	484.9	486.0
162.5°	505.4	504.3	496.2	488.0	488.0
165°	511.5	510.5	506.4	496.2	492.1
167.5°	516.6	515.6	512.5	506.4	503.3
170°	518.6	517.6	514.6	512.5	511.5
172.5°	521.7	521.7	517.6	513.5	513.5
175°	523.7	523.7	519.7	515.6	513.5
177.5°	524.8	524.8	520.7	517.6	516.6
180°	520.7	520.7	520.7	520.7	520.7

(END OF REPORT)