

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: io LED

Report Number: P397319

Luminaire Tested: **8VRVT2-LD5-16-DR-UNV-LA59-CD2-WL-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P397319  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-355-11)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: 8VRVT2-LD5-16-DR-UNV-LA59-CD2-WL-U  
Description:  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4608.8 lumens  
Efficiency: N/A  
Efficacy: 25.7 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.23 / 1.35  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 8.33' x H: 0.17')  
CIE Type: Direct

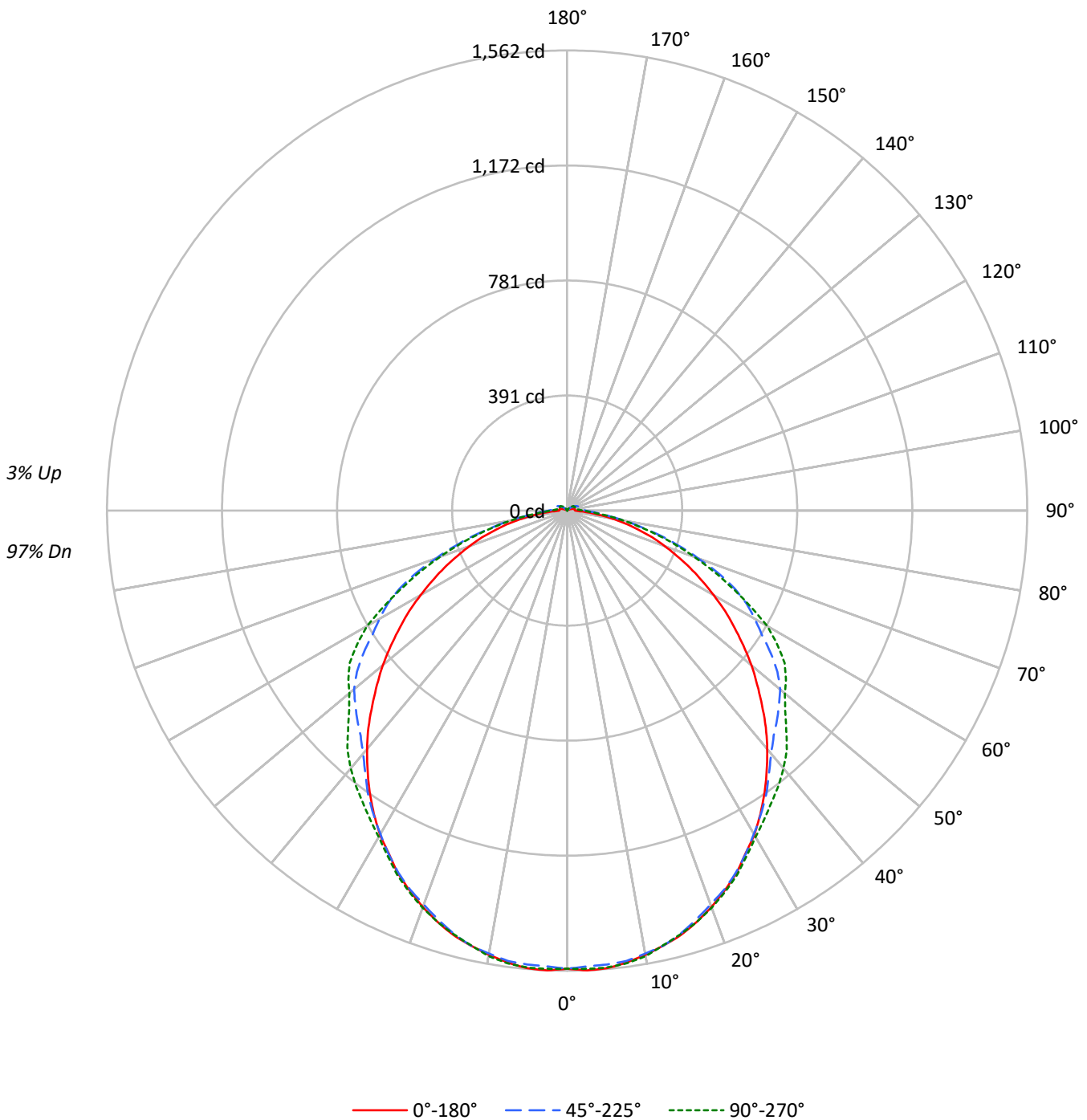
Input Watts (W): 179  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	97
1	108	103	98	94	105	100	96	92	95	92	89	91	88	86	87	85	83	80
2	98	89	82	76	95	87	81	75	83	77	73	79	75	71	76	72	69	66
3	89	78	70	63	86	76	68	62	73	66	61	70	64	59	67	62	58	56
4	81	69	60	53	79	67	59	53	65	57	52	62	56	51	59	54	50	47
5	75	62	52	46	72	60	52	45	58	50	45	55	49	44	53	48	43	41
6	69	55	46	40	67	54	46	39	52	45	39	50	43	38	48	42	38	36
7	64	50	41	35	62	49	41	35	47	40	34	46	39	34	44	38	33	31
8	59	46	37	31	58	45	37	31	43	36	31	42	35	30	40	34	30	28
9	55	42	34	28	54	41	33	28	40	33	28	39	32	27	37	31	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°	4017	4017	4017
5°	4037	3925	3923
10°	4002	3837	3804
15°	3969	3728	3655
20°	3908	3586	3517
25°	3837	3461	3365
30°	3747	3305	3200
35°	3633	3161	3093
40°	3505	3001	3010
45°	3350	2943	2882
50°	3207	2924	2775
55°	3038	2801	2749
60°	2869	2652	2568
65°	2698	2501	2190
70°	2522	2119	1810
75°	2320	1689	1402
80°	2058	1213	1000
85°	1674	831	604



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	147.7	3.2
10°-20°	420.5	9.1
20°-30°	626.7	13.6
30°-40°	741.5	16.1
40°-50°	771.9	16.7
50°-60°	726.2	15.8
60°-70°	581.9	12.6
70°-80°	338.1	7.3
80°-90°	119.2	2.6
90°-100°	46.1	1.0
100°-110°	35.0	0.8
110°-120°	26.6	0.6
120°-130°	16.2	0.4
130°-140°	7.9	0.2
140°-150°	2.6	0.1
150°-160°	0.4	0.0
160°-170°	0.2	0.0
170°-180°	0.1	0.0
0°-30°	1194.9	25.9
0°-40°	1936.4	42.0
0°-60°	3434.5	74.5
0°-90°	4473.7	97.1
90°-120°	107.7	2.3
90°-150°	134.4	2.9
90°-180°	135.0	2.9
0°-180°	4608.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1555	1555	1555	1555	1555	
5°	1560	1553	1547	1560	1557	148
15°	1492	1497	1487	1490	1488	420
25°	1359	1363	1356	1366	1364	625
35°	1168	1171	1178	1198	1210	730
45°	935	945	1007	1056	1052	723
55°	694	735	844	880	901	621
65°	460	576	628	623	614	456
75°	250	346	327	320	315	266
85°	69	106	108	104	98	74
90°	26	57	62	59	55	16
95°	27	42	47	41	38	22
105°	22	31	41	34	29	23
115°	11	20	36	32	28	11
125°	4	7	24	26	25	4
135°	2	2	11	17	18	1
145°	1	1	2	7	9	1
155°	1	1	1	1	1	0
165°	1	1	1	1	0	0
175°	1	1	1	1	1	0
180°	1	1	1	1	1	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1555.1	1555.1	1555.1	1555.1	1555.1
2.5°	1562.4	1556.8	1548.4	1559.6	1556.8
5°	1559.6	1552.9	1546.7	1560.2	1556.8
7.5°	1547.3	1546.2	1541.7	1552.9	1550.1
10°	1531.1	1534.4	1527.1	1536.1	1535.5
12.5°	1512.0	1520.4	1512.0	1514.3	1510.9
15°	1491.9	1496.9	1487.4	1490.2	1488.5
17.5°	1463.9	1471.1	1455.5	1469.5	1463.9
20°	1431.9	1439.2	1423.0	1438.7	1434.7
22.5°	1396.1	1402.8	1392.7	1403.9	1401.1
25°	1358.6	1363.1	1355.8	1365.9	1364.2
27.5°	1312.1	1322.7	1313.2	1325.5	1320.5
30°	1270.7	1274.6	1267.9	1283.0	1279.1
32.5°	1220.8	1223.6	1223.6	1237.1	1243.8
35°	1168.2	1171.0	1177.7	1197.9	1209.6
37.5°	1112.7	1118.9	1125.1	1164.8	1177.7
40°	1056.7	1061.2	1076.3	1134.0	1142.4
42.5°	998.5	1003.0	1037.7	1101.0	1103.8
45°	935.2	944.7	1006.9	1056.2	1051.7
47.5°	875.3	887.0	975.5	999.0	1003.5
50°	817.0	830.5	944.2	953.1	964.9
52.5°	754.3	780.1	899.4	911.7	936.3
55°	693.8	734.7	843.9	880.3	901.0
57.5°	636.2	689.4	783.4	840.0	845.6
60°	574.6	650.7	735.3	783.4	784.0
62.5°	515.8	613.8	687.7	706.2	698.3
65°	460.3	575.7	628.3	622.7	614.3
67.5°	403.8	527.0	555.0	542.6	537.0
70°	352.2	474.3	473.2	462.6	459.2
72.5°	303.0	408.8	397.6	388.1	385.3
75°	249.8	346.1	327.0	319.8	315.3
77.5°	201.6	281.1	255.4	252.6	249.2
80°	154.0	214.5	197.1	197.7	194.3
82.5°	106.4	154.0	144.5	143.4	139.4
85°	69.4	105.8	108.1	104.2	98.0
87.5°	37.5	73.9	79.0	76.2	71.7
90°	26.3	57.1	62.2	58.8	54.9
92.5°	26.3	48.2	52.6	47.6	44.2
95°	26.9	42.0	47.0	40.9	37.5
97.5°	26.9	38.1	43.7	37.0	33.0
100°	25.8	35.8	42.6	35.3	31.4
102.5°	24.1	33.6	42.0	34.2	30.2
105°	21.8	31.4	41.4	34.2	29.1
107.5°	19.0	29.1	40.9	33.6	29.1
110°	16.2	26.3	39.8	33.6	28.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	14.0	23.5	38.1	33.0	28.6
115°	11.2	20.2	35.8	31.9	28.0
117.5°	9.0	16.8	33.0	30.8	27.4
120°	7.3	13.4	30.2	29.7	26.9
122.5°	5.6	10.1	26.9	28.0	25.8
125°	4.5	7.3	23.5	26.3	25.2
127.5°	3.4	5.0	20.2	24.6	23.5
130°	2.8	2.8	16.8	22.4	21.8
132.5°	2.2	2.2	14.0	20.2	20.7
135°	1.7	1.7	11.2	17.4	18.5
137.5°	1.7	1.1	8.4	15.1	16.2
140°	1.1	1.1	6.2	12.3	13.4
142.5°	1.1	1.1	3.9	10.1	11.2
145°	1.1	0.6	2.2	7.3	9.0
147.5°	1.1	0.6	1.1	5.0	6.7
150°	0.6	0.6	0.6	3.4	4.5
152.5°	0.6	0.6	0.6	1.7	2.2
155°	0.6	0.6	0.6	0.6	1.1
157.5°	0.6	0.6	0.6	0.6	0.0
160°	0.6	0.6	0.6	0.6	0.0
162.5°	0.6	0.6	0.6	0.6	0.0
165°	0.6	0.6	0.6	0.6	0.0
167.5°	1.1	0.6	0.6	0.6	0.0
170°	1.1	0.6	0.6	0.6	0.0
172.5°	1.1	1.1	0.6	0.6	0.0
175°	1.1	1.1	0.6	0.6	0.6
177.5°	1.1	1.1	0.6	0.6	0.6
180°	0.6	0.6	0.6	0.6	0.6

(END OF REPORT)