

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: P397219

Luminaire Tested: **2VRVT2-LD5-5-DR100-UNV-LR63-CD1-WL-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P397219  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-355-2)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: 2VRVT2-LD5-5-DR100-UNV-LR63-CD1-WL-U  
Description:  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 823.7 lumens  
Efficiency: N/A  
Efficacy: 8.2 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 2.08' x H: 0.17')  
CIE Type: Direct

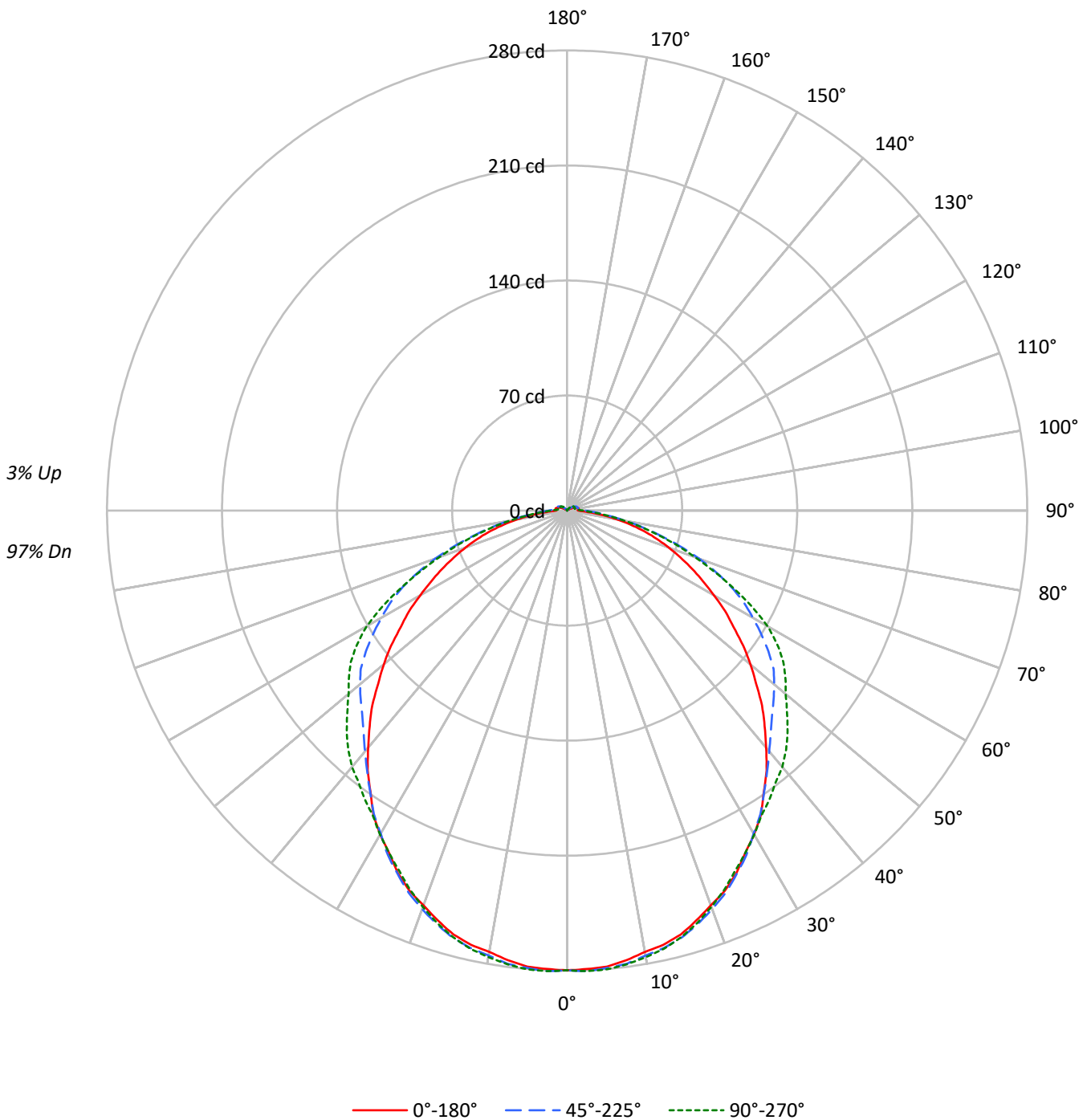
Input Watts (W): 101  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	104	100	96	92	95	92	89	91	88	85	87	84	82	80
2	98	89	82	76	95	87	80	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	55
4	81	69	60	53	79	67	59	53	64	57	52	62	56	51	59	54	50	47
5	75	62	52	46	72	60	52	45	58	50	44	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°	2890	2890	2890
5°	2870	2826	2824
10°	2822	2743	2734
15°	2797	2669	2639
20°	2731	2564	2517
25°	2676	2449	2387
30°	2595	2316	2278
35°	2493	2189	2195
40°	2380	2072	2146
45°	2269	1994	2079
50°	2138	1961	1997
55°	1997	1900	1961
60°	1871	1791	1846
65°	1751	1659	1593
70°	1625	1428	1301
75°	1491	1121	1019
80°	1261	804	723
85°	929	541	456



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	26.5	3.2
10°-20°	75.5	9.2
20°-30°	112.1	13.6
30°-40°	132.1	16.0
40°-50°	137.1	16.6
50°-60°	128.7	15.6
60°-70°	103.4	12.6
70°-80°	61.4	7.5
80°-90°	22.5	2.7
90°-100°	8.4	1.0
100°-110°	6.4	0.8
110°-120°	4.9	0.6
120°-130°	3.0	0.4
130°-140°	1.4	0.2
140°-150°	0.3	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	214.2	26.0
0°-40°	346.2	42.0
0°-60°	612.0	74.3
0°-90°	799.3	97.0
90°-120°	19.8	2.4
90°-150°	24.3	3.0
90°-180°	24.0	2.9
0°-180°	823.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	280	280	280	280	280	
5°	279	279	279	280	280	26
15°	267	267	269	269	269	75
25°	244	244	244	243	242	112
35°	209	210	209	212	215	131
45°	168	167	176	188	190	129
55°	124	128	150	156	161	111
65°	84	99	110	114	112	83
75°	48	62	59	58	57	51
85°	15	21	20	19	18	16
90°	7	11	11	10	10	4
95°	7	8	8	7	6	6
105°	6	6	7	6	5	7
115°	4	4	6	5	5	4
125°	2	2	4	4	4	2
135°	1	0	2	3	3	1
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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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	279.7	279.7	279.7	279.7	279.7
2.5°	279.2	279.7	280.5	280.5	280.5
5°	278.6	278.6	279.4	280.2	280.2
7.5°	275.9	276.5	278.1	278.1	278.4
10°	272.7	274.3	274.9	275.9	275.9
12.5°	270.6	271.1	272.5	273.0	273.0
15°	267.1	267.4	269.0	269.0	268.7
17.5°	261.5	262.3	263.9	263.9	263.1
20°	255.6	257.5	258.0	257.2	256.7
22.5°	250.5	251.0	251.8	250.5	249.7
25°	243.5	243.5	244.1	243.3	241.9
27.5°	234.7	236.6	236.3	235.8	234.7
30°	227.5	228.5	226.9	227.2	227.7
32.5°	219.4	220.0	218.9	219.4	220.0
35°	208.7	210.3	209.0	211.9	214.6
37.5°	199.3	200.4	199.9	205.7	208.4
40°	188.3	189.4	191.3	199.9	203.6
42.5°	177.9	178.2	183.2	194.2	197.2
45°	167.7	167.4	176.3	188.1	189.7
47.5°	155.9	156.7	170.4	180.6	181.4
50°	145.7	147.1	164.5	171.2	173.6
52.5°	135.0	137.2	158.3	163.4	167.4
55°	123.5	127.8	149.5	156.5	160.7
57.5°	114.1	119.5	140.1	148.4	151.6
60°	103.1	112.3	130.5	138.5	140.9
62.5°	93.2	105.3	121.4	126.7	127.0
65°	83.9	98.6	110.4	113.6	111.7
67.5°	74.5	91.1	98.3	98.6	96.7
70°	65.6	82.2	85.2	84.1	82.5
72.5°	57.1	72.1	71.8	70.5	69.9
75°	48.5	61.6	58.7	58.4	57.3
77.5°	39.6	50.6	46.9	46.6	45.8
80°	30.8	38.8	35.9	36.2	35.1
82.5°	22.2	29.5	26.8	27.1	26.0
85°	15.0	20.6	19.8	19.3	18.5
87.5°	8.8	14.5	14.5	14.2	13.1
90°	6.7	11.2	11.2	10.4	9.6
92.5°	6.4	9.1	9.1	8.3	7.5
95°	7.0	8.0	7.8	7.0	6.2
97.5°	7.2	7.5	7.2	6.2	5.6
100°	7.2	7.0	7.0	5.6	5.1
102.5°	7.0	6.7	6.7	5.6	4.8
105°	6.4	6.4	6.7	5.6	4.8
107.5°	5.9	6.2	6.4	5.6	4.8
110°	5.1	5.6	6.4	5.6	4.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	4.6	5.1	6.2	5.4	4.8
115°	3.7	4.3	5.9	5.4	4.8
117.5°	3.2	3.7	5.4	5.1	4.8
120°	2.7	2.9	5.1	5.1	4.6
122.5°	2.1	2.4	4.6	4.8	4.6
125°	1.6	1.9	3.7	4.3	4.3
127.5°	1.3	1.3	3.2	4.0	4.0
130°	1.1	1.1	2.7	3.7	3.7
132.5°	0.8	0.8	2.1	3.2	3.5
135°	0.8	0.5	1.9	2.7	2.9
137.5°	0.5	0.5	1.3	2.4	2.7
140°	0.5	0.5	1.1	1.9	2.1
142.5°	0.5	0.3	0.5	1.6	1.9
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

(END OF REPORT)