

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: P397317

Luminaire Tested: **8VRVT2-LD5-12-FR50-UNV-LG52-CD2-WL-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P397317  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-355-18)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: 8VRVT2-LD5-12-FR50-UNV-LG52-CD2-WL-U  
Description:  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9817.5 lumens  
Efficiency: N/A  
Efficacy: 40.8 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.23 / 1.34  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 8.33' x H: 0.17')  
CIE Type: Direct

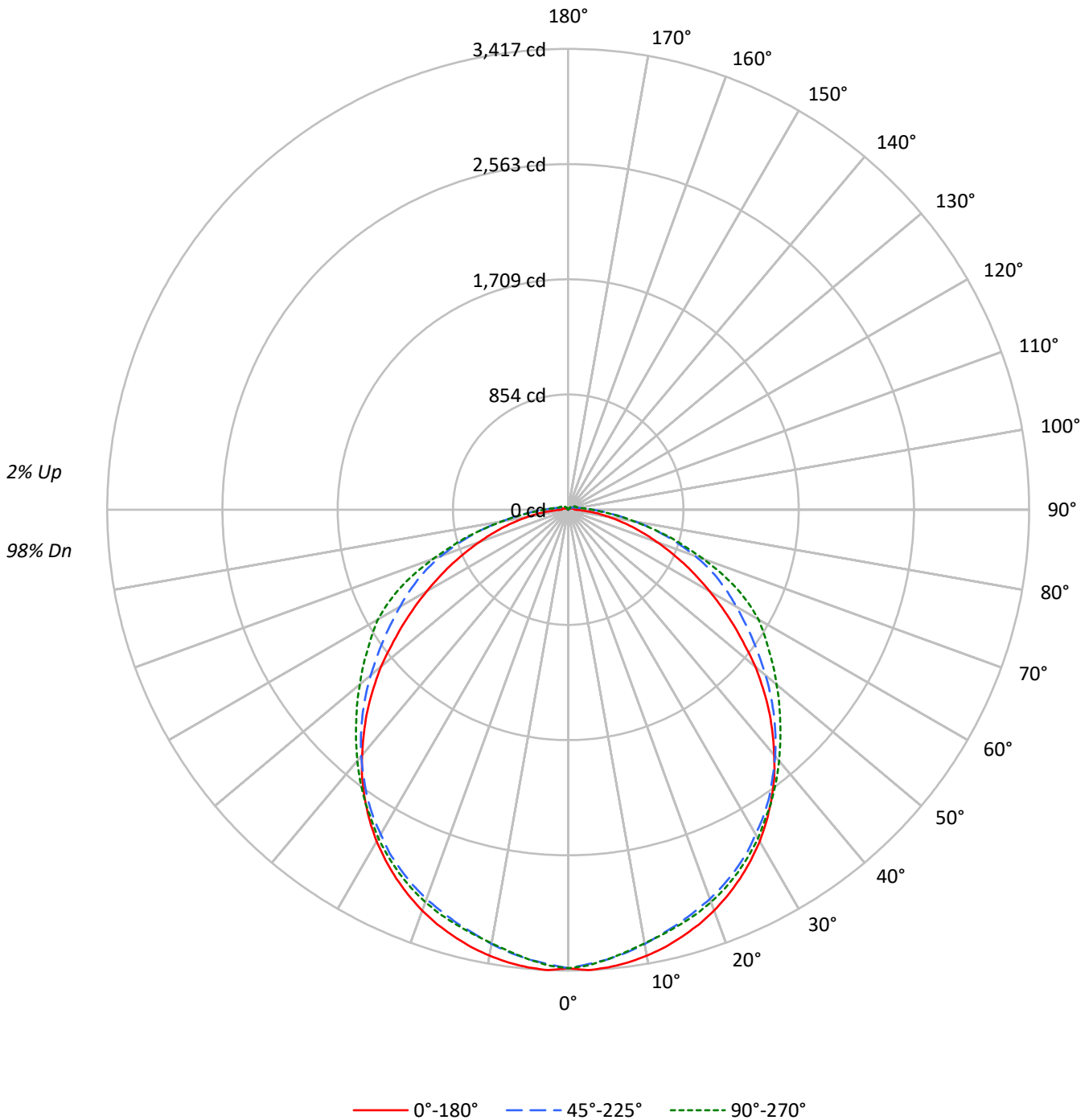
Input Watts (W): 240.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	50	30	10	50	30	10	0		
RCR																										
0	118	118	118	118	115	115	115	115	110	110	110	105	105	105	100	100	100	98								
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	78	73	79	75	71	76	72	69	67								
3	89	78	70	63	86	76	69	62	73	66	61	70	64	60	67	62	58	56								
4	81	69	60	53	79	68	59	53	65	58	52	62	56	51	60	54	50	48								
5	75	62	53	46	73	61	52	46	58	51	45	56	49	44	54	48	43	41								
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	49	43	38	36								
7	64	50	42	35	62	50	41	35	48	40	35	46	39	34	45	39	34	32								
8	60	46	37	32	58	45	37	31	44	36	31	42	36	31	41	35	30	28								
9	56	42	34	28	54	42	34	28	40	33	28	39	32	28	38	32	27	26								
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	35	29	25	23								

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

	0°	45°	90°
0°	8783	8783	8783
5°	8818	8494	8434
10°	8778	8216	8086
15°	8712	7961	7825
20°	8633	7741	7590
25°	8517	7511	7329
30°	8374	7245	7040
35°	8165	6974	6725
40°	7880	6655	6408
45°	7536	6304	6089
50°	7109	5916	5798
55°	6571	5529	5541
60°	6048	5192	5335
65°	5542	4903	4905
70°	4995	4478	4188
75°	4547	3859	3444
80°	4040	3092	2553
85°	3628	2349	1814



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	319.0	3.2
10°-20°	905.2	9.2
20°-30°	1365.7	13.9
30°-40°	1629.8	16.6
40°-50°	1661.9	16.9
50°-60°	1487.7	15.2
60°-70°	1176.0	12.0
70°-80°	727.7	7.4
80°-90°	306.2	3.1
90°-100°	109.1	1.1
100°-110°	57.9	0.6
110°-120°	38.0	0.4
120°-130°	22.0	0.2
130°-140°	9.8	0.1
140°-150°	1.5	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2589.9	26.4
0°-40°	4219.6	43.0
0°-60°	7369.2	75.1
0°-90°	9579.1	97.6
90°-120°	205.1	2.1
90°-150°	238.4	2.4
90°-180°	238.0	2.4
0°-180°	9817.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3400	3400	3400	3400	3400	
5°	3406	3381	3347	3358	3347	324
15°	3275	3222	3176	3195	3187	924
25°	3016	2952	2942	2974	2971	1389
35°	2625	2577	2598	2630	2630	1640
45°	2104	2088	2157	2211	2222	1619
55°	1501	1534	1666	1784	1816	1344
65°	946	1011	1232	1358	1376	939
75°	490	592	747	776	774	521
85°	150	235	306	307	294	156
90°	50	123	182	184	178	32
95°	45	69	114	117	114	36
105°	35	34	61	69	67	38
115°	19	18	42	56	56	19
125°	8	5	26	40	45	8
135°	3	3	10	22	27	3
145°	0	0	0	0	0	1
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°	3399.8	3399.8	3399.8	3399.8	3399.8
2.5°	3417.4	3398.2	3372.6	3390.2	3382.2
5°	3406.2	3380.6	3347.0	3358.2	3347.0
7.5°	3387.0	3355.0	3311.8	3316.6	3305.4
10°	3358.2	3319.8	3270.2	3275.0	3263.8
12.5°	3321.4	3275.0	3220.6	3238.2	3227.0
15°	3275.0	3222.2	3175.8	3195.0	3187.0
17.5°	3223.8	3166.2	3123.0	3153.4	3147.0
20°	3163.0	3099.0	3071.8	3100.6	3095.8
22.5°	3094.2	3025.4	3011.0	3043.0	3038.2
25°	3015.8	2951.8	2942.2	2974.2	2971.0
27.5°	2931.0	2863.8	2868.6	2895.8	2894.2
30°	2839.8	2780.6	2779.0	2815.8	2814.2
32.5°	2737.4	2678.2	2694.2	2723.0	2718.2
35°	2625.4	2577.4	2598.2	2630.2	2630.2
37.5°	2508.6	2463.8	2491.0	2524.6	2532.6
40°	2375.9	2342.3	2387.0	2427.0	2431.8
42.5°	2241.5	2219.1	2273.5	2318.3	2327.9
45°	2103.9	2087.9	2156.7	2211.1	2222.3
47.5°	1956.7	1956.7	2035.1	2100.7	2121.5
50°	1811.1	1811.1	1910.3	1991.9	2015.9
52.5°	1649.5	1671.9	1785.5	1883.1	1918.3
55°	1500.7	1534.3	1665.5	1783.9	1815.9
57.5°	1353.5	1395.1	1548.7	1686.3	1723.1
60°	1211.1	1267.1	1439.9	1587.1	1628.7
62.5°	1076.7	1135.9	1335.9	1479.9	1508.7
65°	945.5	1011.1	1231.9	1358.3	1375.9
67.5°	819.1	903.9	1123.1	1219.1	1225.5
70°	697.6	796.7	999.9	1071.9	1062.3
72.5°	592.0	691.2	873.5	923.1	907.1
75°	489.6	592.0	747.2	776.0	774.4
77.5°	393.6	494.4	624.0	640.0	624.0
80°	302.4	403.2	502.4	510.4	496.0
82.5°	225.6	312.0	395.2	400.0	392.0
85°	150.4	235.2	305.6	307.2	294.4
87.5°	91.2	171.2	233.6	236.8	227.2
90°	49.6	123.2	182.4	184.0	177.6
92.5°	46.4	89.6	140.8	144.0	140.8
95°	44.8	68.8	113.6	116.8	113.6
97.5°	44.8	56.0	92.8	97.6	94.4
100°	41.6	46.4	78.4	83.2	81.6
102.5°	40.0	38.4	68.8	75.2	72.0
105°	35.2	33.6	60.8	68.8	67.2
107.5°	32.0	28.8	56.0	64.0	62.4
110°	27.2	25.6	51.2	60.8	60.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	22.4	20.8	46.4	57.6	57.6
115°	19.2	17.6	41.6	56.0	56.0
117.5°	16.0	14.4	38.4	52.8	54.4
120°	12.8	11.2	33.6	48.0	51.2
122.5°	11.2	8.0	28.8	44.8	48.0
125°	8.0	4.8	25.6	40.0	44.8
127.5°	6.4	4.8	20.8	35.2	40.0
130°	4.8	3.2	17.6	32.0	35.2
132.5°	4.8	3.2	12.8	27.2	30.4
135°	3.2	3.2	9.6	22.4	27.2
137.5°	3.2	1.6	6.4	17.6	22.4
140°	3.2	1.6	3.2	14.4	17.6
142.5°	1.6	1.6	1.6	9.6	12.8
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)