

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: P397356

Luminaire Tested: **8VRVT2-LD5-9-DR100-UNV-LG52-CD1-WL-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P397356  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-355-17)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: 8VRVT2-LD5-9-DR100-UNV-LG52-CD1-WL-U  
Description:  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7248.8 lumens  
Efficiency: N/A  
Efficacy: 46.3 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.21 / 1.32  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 8.33' x H: 0.17')  
CIE Type: Direct

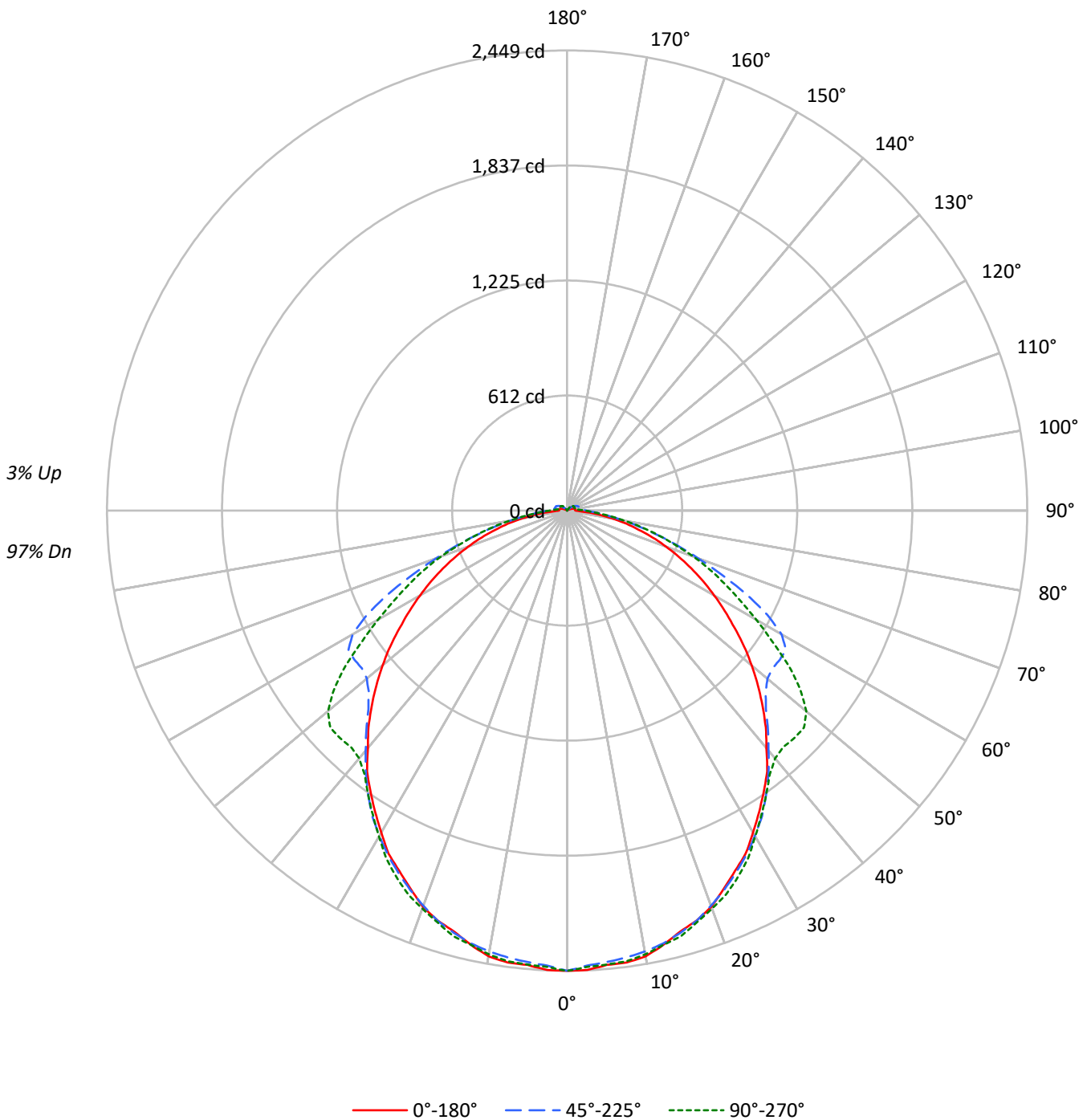
Input Watts (W): 156.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	86	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	69	64	59	67	62	58	55
4	81	69	60	53	79	67	59	53	64	57	51	62	55	50	59	54	49	47
5	74	61	52	46	72	60	52	45	58	50	44	55	49	44	53	47	43	41
6	69	55	46	40	67	54	46	39	52	44	39	50	43	38	48	42	38	35
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	38	32	27	37	31	27	25
10	52	39	31	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23

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

	0°	45°	90°
0°	6328	6328	6328
5°	6283	6121	6110
10°	6296	5987	5941
15°	6171	5832	5756
20°	6124	5639	5527
25°	5974	5427	5307
30°	5834	5210	5008
35°	5673	4956	4721
40°	5473	4649	4536
45°	5266	4372	4688
50°	5032	4310	4780
55°	4759	4589	4393
60°	4517	4754	3809
65°	4274	4182	3303
70°	4008	3313	2811
75°	3669	2553	2209
80°	3295	1856	1582
85°	2622	1321	1037



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	230.5	3.2
10°-20°	658.0	9.1
20°-30°	983.5	13.6
30°-40°	1151.9	15.9
40°-50°	1203.4	16.6
50°-60°	1169.1	16.1
60°-70°	909.6	12.5
70°-80°	535.2	7.4
80°-90°	193.4	2.7
90°-100°	73.4	1.0
100°-110°	54.7	0.8
110°-120°	42.5	0.6
120°-130°	27.0	0.4
130°-140°	13.8	0.2
140°-150°	2.7	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1872.1	25.8
0°-40°	3023.9	41.7
0°-60°	5396.5	74.4
0°-90°	7034.7	97.0
90°-120°	170.5	2.4
90°-150°	214.1	3.0
90°-180°	214.0	3.0
0°-180°	7248.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2449	2449	2449	2449	2449	
5°	2427	2420	2412	2428	2425	232
15°	2320	2327	2327	2348	2344	657
25°	2115	2133	2126	2153	2151	976
35°	1824	1837	1846	1848	1846	1141
45°	1470	1484	1496	1635	1711	1134
55°	1087	1121	1382	1490	1440	975
65°	729	864	1051	927	927	722
75°	395	587	494	491	497	422
85°	109	175	172	171	168	119
90°	43	91	102	96	94	26
95°	44	67	74	64	58	36
105°	36	51	64	50	43	38
115°	19	35	57	49	42	19
125°	8	14	40	43	40	7
135°	4	2	20	30	32	2
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°	2449.4	2449.4	2449.4	2449.4	2449.4
2.5°	2447.1	2436.6	2423.8	2437.8	2430.8
5°	2427.3	2420.2	2412.1	2428.4	2425.0
7.5°	2426.1	2410.9	2399.2	2420.2	2419.1
10°	2408.6	2388.7	2382.9	2405.0	2398.1
12.5°	2367.7	2358.3	2359.5	2384.0	2367.7
15°	2319.8	2326.8	2326.8	2347.8	2344.3
17.5°	2288.2	2288.2	2289.4	2303.4	2297.5
20°	2243.8	2241.4	2237.9	2261.4	2254.3
22.5°	2178.3	2187.7	2184.2	2215.8	2211.0
25°	2115.3	2132.8	2125.8	2152.6	2151.4
27.5°	2058.0	2067.4	2066.2	2088.4	2086.0
30°	1978.5	1993.7	1998.4	2012.4	2001.9
32.5°	1901.4	1916.6	1929.4	1929.4	1923.6
35°	1824.2	1837.1	1846.5	1847.6	1846.5
37.5°	1749.4	1750.6	1760.0	1760.0	1770.5
40°	1650.2	1664.2	1667.7	1694.6	1721.4
42.5°	1564.8	1573.0	1581.2	1650.2	1705.0
45°	1470.2	1484.2	1495.8	1635.0	1710.9
47.5°	1377.8	1389.5	1431.6	1640.8	1709.8
50°	1282.0	1298.4	1391.8	1646.6	1661.8
52.5°	1187.4	1209.5	1377.8	1595.2	1564.8
55°	1086.8	1120.7	1382.5	1490.0	1439.8
57.5°	994.5	1043.6	1380.2	1352.1	1291.4
60°	904.6	974.6	1318.2	1195.5	1162.8
62.5°	815.7	916.2	1200.2	1055.3	1037.8
65°	729.2	863.6	1050.6	926.7	926.7
67.5°	642.7	821.5	887.0	812.2	823.9
70°	559.8	771.3	739.8	697.7	712.9
72.5°	476.8	694.2	611.2	596.0	599.5
75°	395.0	586.6	494.3	490.8	496.6
77.5°	323.7	467.4	388.0	399.7	402.0
80°	246.6	351.8	301.5	312.0	307.4
82.5°	173.0	252.4	227.9	234.9	232.6
85°	108.7	175.3	171.8	170.6	168.3
87.5°	61.9	119.2	127.4	127.4	122.7
90°	43.2	91.1	101.7	95.8	93.5
92.5°	43.2	77.1	84.2	76.0	71.3
95°	44.4	66.6	73.6	64.2	58.4
97.5°	44.4	61.9	69.0	57.3	51.4
100°	43.2	57.3	66.6	52.6	46.7
102.5°	39.8	55.0	65.4	51.4	44.4
105°	36.2	51.4	64.2	50.2	43.2
107.5°	32.7	47.9	64.2	50.2	42.1
110°	28.1	44.4	63.1	50.2	42.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	23.4	39.8	60.8	49.1	42.1
115°	18.7	35.0	57.3	49.1	42.1
117.5°	15.2	29.2	53.8	47.9	42.1
120°	12.9	23.4	50.2	46.7	40.9
122.5°	9.4	18.7	44.4	44.4	40.9
125°	8.2	14.0	39.8	43.2	39.8
127.5°	5.8	9.4	35.0	39.8	38.6
130°	4.6	5.8	29.2	37.4	37.4
132.5°	3.5	3.5	24.6	33.9	35.0
135°	3.5	2.3	19.8	30.4	31.5
137.5°	2.3	2.3	15.2	25.7	29.2
140°	2.3	2.3	11.7	22.2	24.6
142.5°	2.3	2.3	8.2	17.5	21.0
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

(END OF REPORT)