

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: P397350

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P397350  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-355-16)  
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-DR-UNV-LG52-CD1-WL-U  
Description:  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7243.2 lumens  
Efficiency: N/A  
Efficacy: 46.3 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 8.33' x H: 0.17')  
CIE Type: Direct

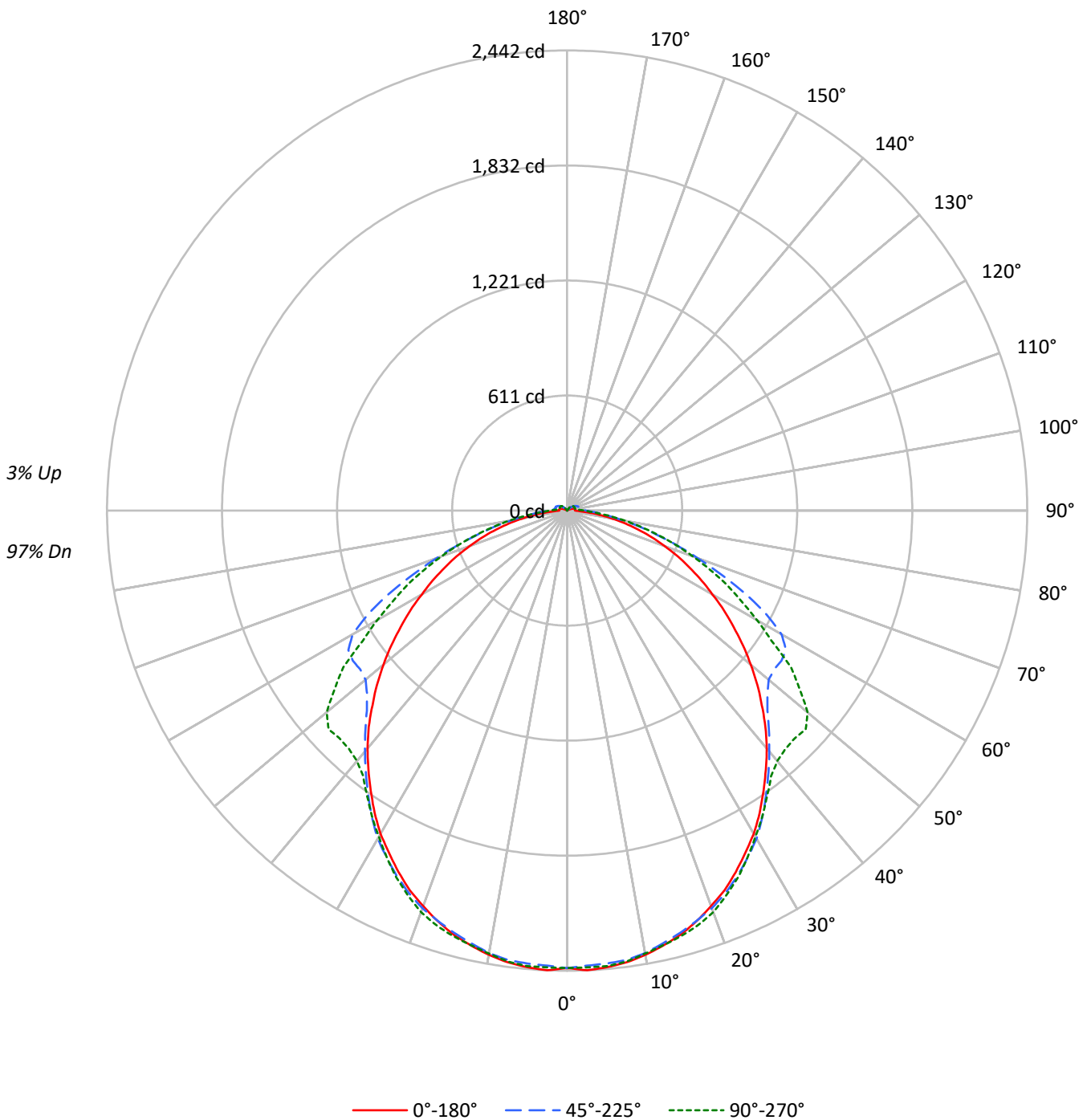
Input Watts (W): 156.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	105	100	96	92	95	92	89	91	88	86	87	85	83	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	51	62	56	50	59	54	49	47
5	75	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°	6272	6272	6272
5°	6296	6122	6114
10°	6257	5991	5913
15°	6197	5813	5739
20°	6096	5658	5559
25°	5978	5461	5297
30°	5839	5241	5000
35°	5649	4941	4731
40°	5466	4653	4571
45°	5233	4394	4682
50°	4992	4325	4791
55°	4724	4609	4426
60°	4447	4738	3813
65°	4200	4145	3341
70°	3941	3298	2792
75°	3626	2530	2220
80°	3217	1849	1618
85°	2649	1330	1030



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	230.4	3.2
10°-20°	658.2	9.1
20°-30°	983.9	13.6
30°-40°	1152.6	15.9
40°-50°	1206.3	16.7
50°-60°	1166.7	16.1
60°-70°	906.9	12.5
70°-80°	535.0	7.4
80°-90°	192.8	2.7
90°-100°	71.9	1.0
100°-110°	53.9	0.7
110°-120°	41.7	0.6
120°-130°	26.6	0.4
130°-140°	13.7	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°	1872.5	25.9
0°-40°	3025.1	41.8
0°-60°	5398.0	74.5
0°-90°	7032.8	97.1
90°-120°	167.5	2.3
90°-150°	210.4	2.9
90°-180°	210.0	2.9
0°-180°	7243.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2428	2428	2428	2428	2428	
5°	2432	2421	2412	2434	2426	231
15°	2329	2336	2319	2347	2338	656
25°	2117	2126	2139	2155	2147	975
35°	1816	1840	1841	1851	1850	1137
45°	1461	1487	1503	1647	1709	1128
55°	1079	1116	1389	1481	1450	967
65°	716	861	1041	930	937	712
75°	390	583	490	496	499	415
85°	110	173	173	172	167	118
90°	42	90	99	95	89	26
95°	43	65	72	63	56	35
105°	35	51	63	50	43	37
115°	18	34	56	48	42	19
125°	7	13	39	42	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°	2427.7	2427.7	2427.7	2427.7	2427.7
2.5°	2441.7	2430.0	2417.1	2432.3	2426.5
5°	2432.3	2420.6	2412.5	2433.5	2426.5
7.5°	2418.3	2410.2	2405.4	2423.0	2413.6
10°	2393.8	2390.2	2384.4	2401.9	2386.7
12.5°	2363.4	2366.9	2351.7	2371.5	2362.2
15°	2329.4	2336.5	2319.0	2347.0	2337.7
17.5°	2285.0	2293.3	2282.7	2317.8	2307.3
20°	2233.6	2238.3	2245.4	2269.8	2267.5
22.5°	2181.0	2184.6	2196.2	2215.0	2209.1
25°	2116.7	2126.1	2139.0	2155.4	2147.1
27.5°	2047.8	2061.8	2074.6	2087.5	2073.5
30°	1980.0	1987.0	2010.4	2009.2	1998.7
32.5°	1901.7	1919.2	1928.6	1925.0	1926.2
35°	1816.4	1839.8	1840.9	1851.4	1850.2
37.5°	1732.2	1757.9	1754.4	1774.3	1777.8
40°	1648.1	1665.6	1669.1	1704.2	1734.6
42.5°	1558.1	1575.6	1585.0	1658.6	1714.6
45°	1461.0	1486.7	1503.1	1646.9	1708.8
47.5°	1369.8	1393.3	1440.0	1646.9	1717.0
50°	1271.7	1299.8	1396.7	1643.4	1665.6
52.5°	1177.0	1205.0	1383.9	1593.1	1554.6
55°	1078.8	1116.2	1388.6	1480.9	1450.5
57.5°	987.7	1040.2	1376.9	1346.5	1285.7
60°	890.6	967.8	1313.8	1196.9	1164.2
62.5°	805.4	909.4	1192.2	1054.3	1042.6
65°	716.5	861.4	1041.4	930.4	937.4
67.5°	635.8	818.2	883.6	817.0	821.7
70°	550.5	766.7	736.4	709.4	708.3
72.5°	471.0	693.1	607.8	599.6	603.1
75°	390.4	583.3	489.8	495.6	499.1
77.5°	316.7	471.0	392.7	399.8	399.8
80°	240.8	351.8	300.4	313.3	314.4
82.5°	173.0	251.3	229.1	236.1	230.2
85°	109.8	173.0	173.0	171.8	167.1
87.5°	61.9	119.2	126.2	125.0	119.2
90°	42.1	90.0	99.4	94.6	88.8
92.5°	42.1	76.0	83.0	74.8	69.0
95°	43.3	65.4	72.5	63.1	56.1
97.5°	42.1	60.8	67.8	56.1	49.1
100°	40.9	56.1	65.4	52.6	45.6
102.5°	38.6	53.8	64.3	50.2	43.3
105°	35.0	51.4	63.1	50.2	43.3
107.5°	30.4	47.9	63.1	50.2	43.3
110°	26.9	43.3	61.9	49.1	42.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	22.2	38.6	59.6	49.1	42.1
115°	17.5	33.9	56.1	47.9	42.1
117.5°	15.2	28.1	52.6	47.9	42.1
120°	11.7	23.4	49.1	45.6	40.9
122.5°	9.4	17.5	44.4	44.4	39.8
125°	7.0	12.9	38.6	42.1	39.8
127.5°	5.8	9.4	33.9	39.8	38.6
130°	4.6	5.8	29.2	37.4	36.2
132.5°	3.5	3.5	24.6	33.9	33.9
135°	3.5	2.3	19.8	30.4	31.5
137.5°	2.3	2.3	15.2	25.7	28.1
140°	2.3	2.3	11.7	22.2	24.6
142.5°	2.3	2.3	8.2	17.5	19.8
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)