

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: P397305

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P397305  
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-LD5-12-DR-UNV-LG52-CD2-WL-U  
Description:  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9915.2 lumens  
Efficiency: N/A  
Efficacy: 41.2 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

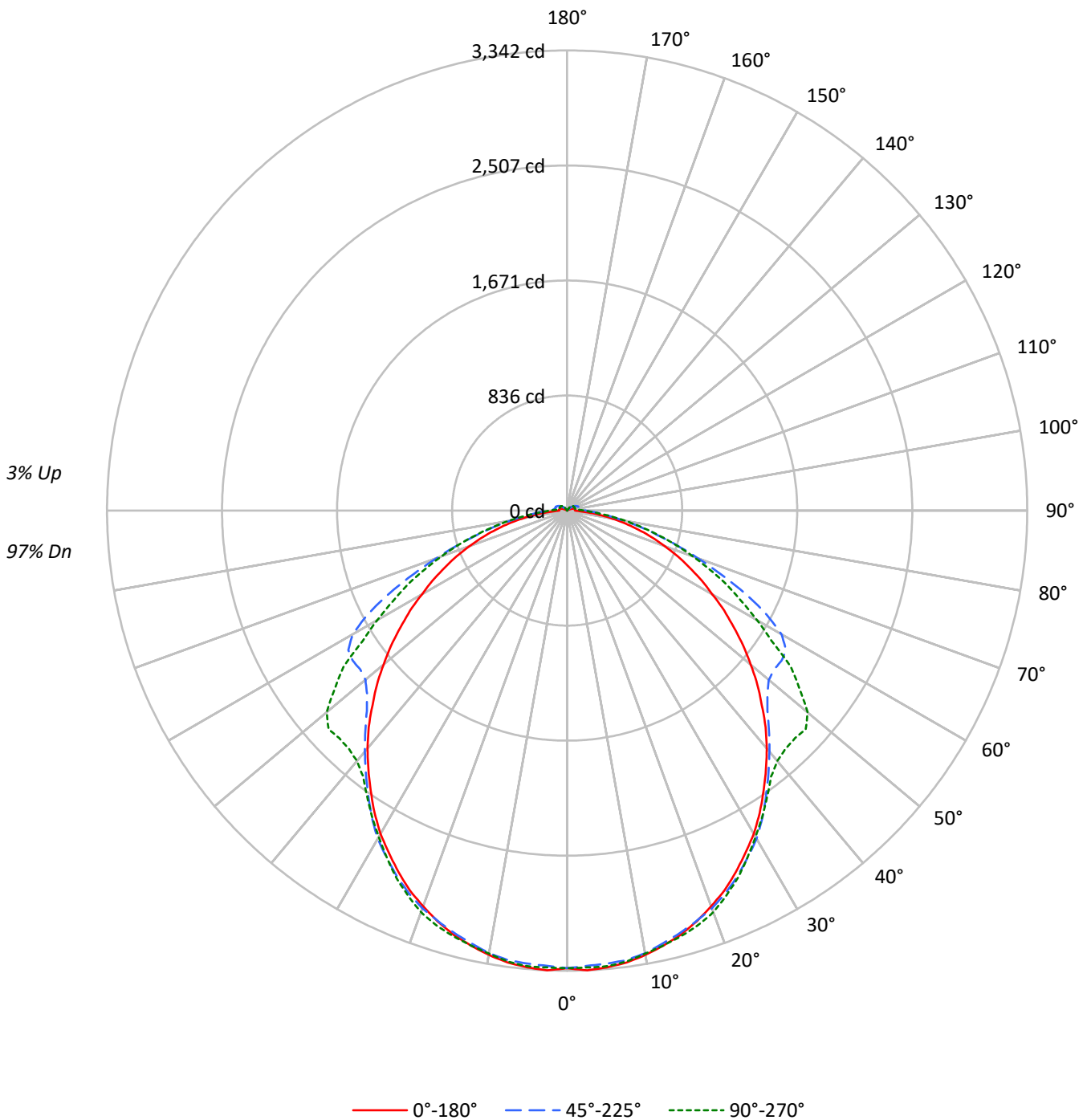
Input Watts (W): 240.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P397305

CATALOG NUMBER: 8VRVT2-LD5-12-DR-UNV-LG52-CD2-WL-U

### Luminous Intensity Polar Plot





TEST NUMBER: P397305

CATALOG NUMBER: 8VRVT2-LD5-12-DR-UNV-LG52-CD2-WL-U

**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°	8585	8585	8585
5°	8619	8381	8370
10°	8565	8201	8095
15°	8483	7957	7857
20°	8345	7745	7610
25°	8183	7475	7251
30°	7993	7174	6844
35°	7733	6764	6476
40°	7482	6370	6257
45°	7164	6015	6410
50°	6833	5921	6558
55°	6467	6310	6059
60°	6088	6485	5220
65°	5749	5674	4574
70°	5396	4515	3823
75°	4964	3463	3039
80°	4404	2531	2215
85°	3628	1820	1410



TEST NUMBER: P397305

CATALOG NUMBER: 8VRVT2-LD5-12-DR-UNV-LG52-CD2-WL-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	315.4	3.2
10°-20°	901.0	9.1
20°-30°	1346.8	13.6
30°-40°	1577.8	15.9
40°-50°	1651.2	16.7
50°-60°	1597.0	16.1
60°-70°	1241.5	12.5
70°-80°	732.4	7.4
80°-90°	263.9	2.7
90°-100°	98.4	1.0
100°-110°	73.7	0.7
110°-120°	57.1	0.6
120°-130°	36.4	0.4
130°-140°	18.7	0.2
140°-150°	3.7	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2563.2	25.9
0°-40°	4141.1	41.8
0°-60°	7389.3	74.5
0°-90°	9627.1	97.1
90°-120°	229.2	2.3
90°-150°	288.0	2.9
90°-180°	288.0	2.9
0°-180°	9915.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3323	3323	3323	3323	3323	
5°	3330	3314	3302	3331	3322	316
15°	3189	3198	3174	3213	3200	898
25°	2898	2910	2928	2950	2939	1334
35°	2486	2518	2520	2534	2533	1556
45°	2000	2035	2058	2254	2339	1545
55°	1477	1528	1901	2027	1986	1323
65°	981	1179	1426	1274	1283	975
75°	534	798	670	678	683	568
85°	150	237	237	235	229	162
90°	58	123	136	130	122	35
95°	59	90	99	86	77	47
105°	48	70	86	69	59	50
115°	24	46	77	66	58	25
125°	10	18	53	58	54	9
135°	5	3	27	42	43	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



TEST NUMBER: P397305

CATALOG NUMBER: 8VRVT2-LD5-12-DR-UNV-LG52-CD2-WL-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3323.2	3323.2	3323.2	3323.2	3323.2
2.5°	3342.4	3326.4	3308.8	3329.6	3321.6
5°	3329.6	3313.6	3302.4	3331.2	3321.6
7.5°	3310.4	3299.2	3292.8	3316.8	3304.0
10°	3276.8	3272.0	3264.0	3288.0	3267.2
12.5°	3235.2	3240.0	3219.2	3246.4	3233.6
15°	3188.8	3198.4	3174.4	3212.8	3200.0
17.5°	3128.0	3139.2	3124.8	3172.8	3158.4
20°	3057.6	3064.0	3073.6	3107.2	3104.0
22.5°	2985.6	2990.4	3006.4	3032.0	3024.0
25°	2897.6	2910.4	2928.0	2950.4	2939.2
27.5°	2803.2	2822.4	2840.0	2857.6	2838.4
30°	2710.4	2720.0	2752.0	2750.4	2736.0
32.5°	2603.2	2627.2	2640.0	2635.2	2636.8
35°	2486.4	2518.4	2520.0	2534.4	2532.8
37.5°	2371.2	2406.4	2401.6	2428.8	2433.6
40°	2256.0	2280.0	2284.8	2332.8	2374.4
42.5°	2132.8	2156.8	2169.6	2270.4	2347.2
45°	2000.0	2035.2	2057.6	2254.4	2339.2
47.5°	1875.2	1907.2	1971.2	2254.4	2350.4
50°	1740.8	1779.2	1912.0	2249.6	2280.0
52.5°	1611.2	1649.6	1894.4	2180.8	2128.0
55°	1476.8	1528.0	1900.8	2027.2	1985.6
57.5°	1352.0	1424.0	1884.8	1843.2	1760.0
60°	1219.2	1324.8	1798.4	1638.4	1593.6
62.5°	1102.4	1244.8	1632.0	1443.2	1427.2
65°	980.8	1179.2	1425.6	1273.6	1283.2
67.5°	870.4	1120.0	1209.6	1118.4	1124.8
70°	753.6	1049.6	1008.0	971.2	969.6
72.5°	644.8	948.8	832.0	820.8	825.6
75°	534.4	798.4	670.4	678.4	683.2
77.5°	433.6	644.8	537.6	547.2	547.2
80°	329.6	481.6	411.2	428.8	430.4
82.5°	236.8	344.0	313.6	323.2	315.2
85°	150.4	236.8	236.8	235.2	228.8
87.5°	84.8	163.2	172.8	171.2	163.2
90°	57.6	123.2	136.0	129.6	121.6
92.5°	57.6	104.0	113.6	102.4	94.4
95°	59.2	89.6	99.2	86.4	76.8
97.5°	57.6	83.2	92.8	76.8	67.2
100°	56.0	76.8	89.6	72.0	62.4
102.5°	52.8	73.6	88.0	68.8	59.2
105°	48.0	70.4	86.4	68.8	59.2
107.5°	41.6	65.6	86.4	68.8	59.2
110°	36.8	59.2	84.8	67.2	57.6



TEST NUMBER: P397305

CATALOG NUMBER: 8VRVT2-LD5-12-DR-UNV-LG52-CD2-WL-U

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	30.4	52.8	81.6	67.2	57.6
115°	24.0	46.4	76.8	65.6	57.6
117.5°	20.8	38.4	72.0	65.6	57.6
120°	16.0	32.0	67.2	62.4	56.0
122.5°	12.8	24.0	60.8	60.8	54.4
125°	9.6	17.6	52.8	57.6	54.4
127.5°	8.0	12.8	46.4	54.4	52.8
130°	6.4	8.0	40.0	51.2	49.6
132.5°	4.8	4.8	33.6	46.4	46.4
135°	4.8	3.2	27.2	41.6	43.2
137.5°	3.2	3.2	20.8	35.2	38.4
140°	3.2	3.2	16.0	30.4	33.6
142.5°	3.2	3.2	11.2	24.0	27.2
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)