

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: P397326

Luminaire Tested: **8VRVT2-LD5-16-DR100-UNV-LG52-CD2-WL-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P397326  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-355-12)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: 8VRVT2-LD5-16-DR100-UNV-LG52-CD2-WL-U  
Description:  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13185.6 lumens  
Efficiency: N/A  
Efficacy: 47.3 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.35  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 8.33' x H: 0.17')  
CIE Type: Direct

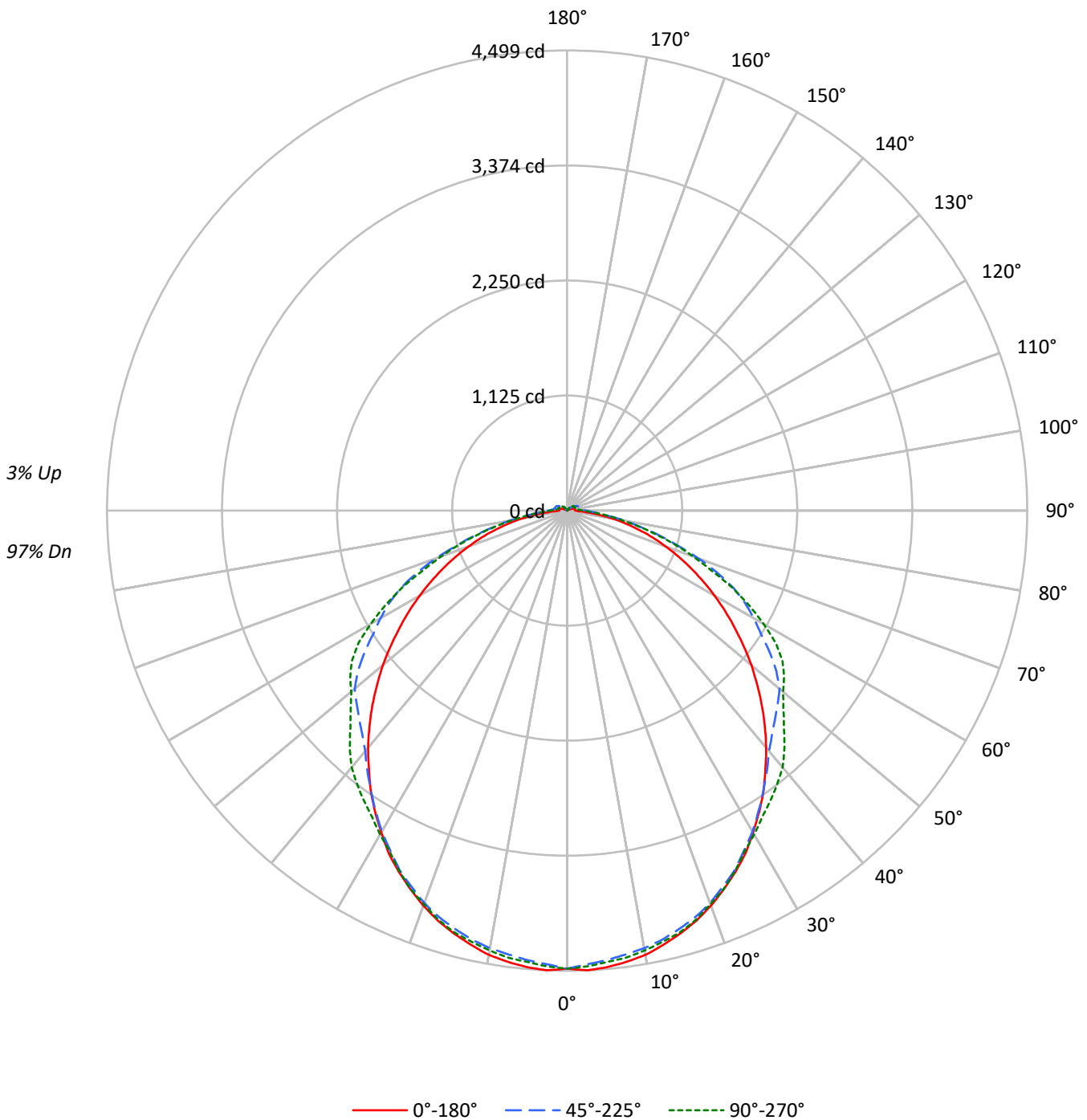
Input Watts (W): 278.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	56
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	44	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°	11569	11569	11569
5°	11601	11198	11163
10°	11530	10914	10818
15°	11385	10616	10477
20°	11218	10289	10042
25°	11002	9897	9587
30°	10715	9447	9149
35°	10410	8975	8857
40°	10040	8560	8639
45°	9645	8404	8211
50°	9233	8398	7925
55°	8765	8030	7845
60°	8310	7599	7264
65°	7821	7152	6325
70°	7320	6113	5160
75°	6762	4777	3985
80°	5986	3516	2816
85°	4555	2349	1814



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	421.7	3.2
10°-20°	1200.6	9.1
20°-30°	1788.1	13.6
30°-40°	2115.8	16.0
40°-50°	2209.6	16.8
50°-60°	2078.8	15.8
60°-70°	1667.2	12.6
70°-80°	967.6	7.3
80°-90°	344.7	2.6
90°-100°	134.5	1.0
100°-110°	101.2	0.8
110°-120°	76.9	0.6
120°-130°	47.1	0.4
130°-140°	23.1	0.2
140°-150°	7.6	0.1
150°-160°	1.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3410.5	25.9
0°-40°	5526.3	41.9
0°-60°	9814.7	74.4
0°-90°	12794.2	97.0
90°-120°	312.7	2.4
90°-150°	390.4	3.0
90°-180°	391.0	3.0
0°-180°	13185.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4478	4478	4478	4478	4478	
5°	4482	4458	4413	4435	4430	425
15°	4280	4248	4235	4278	4267	1207
25°	3896	3874	3877	3904	3886	1793
35°	3347	3342	3344	3418	3464	2090
45°	2693	2707	2875	3018	2997	2076
55°	2002	2101	2419	2507	2571	1792
65°	1334	1661	1797	1784	1774	1326
75°	728	998	925	907	896	772
85°	189	309	306	299	294	211
90°	77	165	184	173	163	46
95°	78	122	136	120	109	63
105°	64	91	120	98	85	67
115°	34	58	104	93	80	34
125°	13	22	69	75	72	12
135°	6	5	32	51	53	5
145°	3	3	6	22	26	2
155°	2	2	2	2	3	1
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°	4478.3	4478.3	4478.3	4478.3	4478.3
2.5°	4499.1	4475.1	4439.9	4471.9	4460.7
5°	4481.5	4457.5	4412.7	4435.1	4430.3
7.5°	4449.5	4417.5	4377.5	4412.7	4409.5
10°	4411.1	4374.3	4343.9	4377.5	4366.3
12.5°	4347.1	4318.3	4295.9	4335.9	4318.3
15°	4279.9	4247.9	4235.1	4278.3	4267.1
17.5°	4203.1	4177.5	4167.9	4191.9	4193.5
20°	4110.3	4091.1	4083.1	4115.1	4095.9
22.5°	4004.7	3977.5	3979.1	4012.7	4003.1
25°	3895.9	3873.5	3876.7	3903.9	3886.3
27.5°	3777.5	3751.9	3745.5	3774.3	3756.7
30°	3633.5	3628.7	3623.9	3647.9	3657.5
32.5°	3494.3	3492.7	3483.1	3516.7	3550.3
35°	3347.1	3342.3	3343.9	3417.5	3463.9
37.5°	3183.9	3188.7	3207.9	3326.3	3372.7
40°	3027.1	3028.7	3070.3	3247.9	3278.3
42.5°	2860.7	2863.9	2964.7	3151.9	3145.5
45°	2692.7	2707.1	2875.1	3017.5	2996.7
47.5°	2518.3	2545.5	2791.9	2867.1	2868.7
50°	2352.0	2387.2	2711.9	2729.5	2755.1
52.5°	2174.4	2243.2	2577.5	2601.5	2673.5
55°	2001.6	2100.8	2419.2	2507.1	2571.1
57.5°	1832.0	1977.6	2248.0	2387.2	2422.4
60°	1664.0	1867.2	2107.2	2220.8	2217.6
62.5°	1499.2	1761.6	1960.0	2012.8	2004.8
65°	1334.4	1660.8	1796.8	1784.0	1774.4
67.5°	1182.4	1523.2	1588.8	1536.0	1520.0
70°	1022.4	1356.8	1364.8	1312.0	1308.8
72.5°	878.4	1177.6	1129.6	1104.0	1105.6
75°	728.0	998.4	924.8	907.2	896.0
77.5°	587.2	801.6	729.6	726.4	720.0
80°	448.0	617.6	571.2	556.8	547.2
82.5°	312.0	446.4	417.6	417.6	411.2
85°	188.8	308.8	305.6	299.2	294.4
87.5°	105.6	212.8	228.8	222.4	209.6
90°	76.8	164.8	184.0	172.8	163.2
92.5°	76.8	139.2	153.6	140.8	129.6
95°	78.4	121.6	136.0	120.0	108.8
97.5°	78.4	112.0	128.0	108.8	97.6
100°	75.2	104.0	123.2	102.4	89.6
102.5°	70.4	97.6	120.0	99.2	86.4
105°	64.0	91.2	120.0	97.6	84.8
107.5°	56.0	84.8	116.8	97.6	83.2
110°	48.0	76.8	115.2	96.0	83.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	41.6	67.2	110.4	94.4	81.6
115°	33.6	57.6	104.0	92.8	80.0
117.5°	27.2	48.0	96.0	89.6	78.4
120°	22.4	38.4	86.4	84.8	76.8
122.5°	16.0	28.8	78.4	81.6	75.2
125°	12.8	22.4	68.8	75.2	72.0
127.5°	11.2	14.4	59.2	70.4	68.8
130°	8.0	9.6	49.6	64.0	64.0
132.5°	6.4	6.4	40.0	57.6	59.2
135°	6.4	4.8	32.0	51.2	52.8
137.5°	4.8	4.8	25.6	43.2	46.4
140°	3.2	3.2	17.6	35.2	40.0
142.5°	3.2	3.2	11.2	28.8	32.0
145°	3.2	3.2	6.4	22.4	25.6
147.5°	3.2	1.6	3.2	16.0	19.2
150°	3.2	1.6	1.6	9.6	12.8
152.5°	1.6	1.6	1.6	4.8	8.0
155°	1.6	1.6	1.6	1.6	3.2
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)