

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: P397320

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P397320
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-355-11)
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-DR-UNV-LG52-CD2-WL-U
Description:
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13168.0 lumens
Efficiency: N/A
Efficacy: 47.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.23 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 8.33' x H: 0.17')
CIE Type: Direct

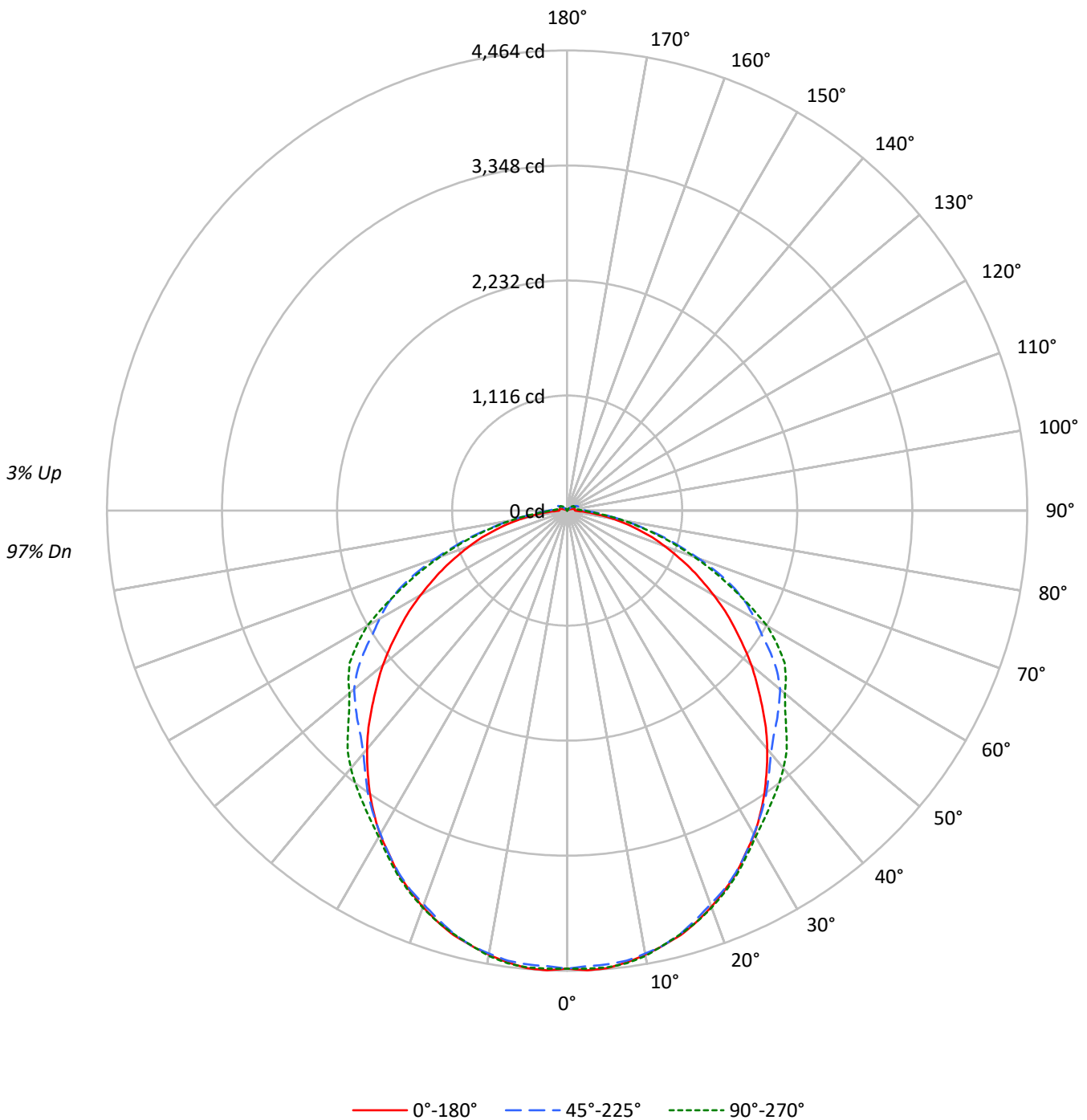
Input Watts (W): 278.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	81	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	65	57	52	62	56	51	59	54	50	47
5	75	62	52	46	72	60	52	45	58	50	45	55	49	44	53	48	43	41
6	69	55	46	40	67	54	46	39	52	45	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°	11479	11479	11479
5°	11535	11215	11208
10°	11435	10963	10870
15°	11339	10653	10442
20°	11166	10245	10050
25°	10962	9889	9615
30°	10706	9444	9142
35°	10381	9032	8837
40°	10014	8573	8602
45°	9570	8409	8233
50°	9163	8354	7929
55°	8681	8004	7855
60°	8198	7576	7337
65°	7709	7145	6257
70°	7206	6055	5173
75°	6628	4826	4007
80°	5879	3467	2858
85°	4786	2374	1725



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	422.0	3.2
10°-20°	1201.4	9.1
20°-30°	1790.7	13.6
30°-40°	2118.5	16.1
40°-50°	2205.5	16.7
50°-60°	2074.8	15.8
60°-70°	1662.6	12.6
70°-80°	965.9	7.3
80°-90°	340.7	2.6
90°-100°	131.6	1.0
100°-110°	100.0	0.8
110°-120°	76.1	0.6
120°-130°	46.4	0.4
130°-140°	22.7	0.2
140°-150°	7.4	0.1
150°-160°	1.1	0.0
160°-170°	0.4	0.0
170°-180°	0.2	0.0
0°-30°	3414.1	25.9
0°-40°	5532.7	42.0
0°-60°	9813.0	74.5
0°-90°	12782.1	97.1
90°-120°	307.7	2.3
90°-150°	384.1	2.9
90°-180°	386.0	2.9
0°-180°	13168.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4443	4443	4443	4443	4443	
5°	4456	4437	4419	4458	4448	422
15°	4262	4277	4250	4258	4253	1201
25°	3882	3894	3874	3902	3898	1785
35°	3338	3346	3365	3422	3456	2086
45°	2672	2699	2877	3018	3005	2065
55°	1982	2099	2411	2515	2574	1776
65°	1315	1645	1795	1779	1755	1303
75°	714	989	934	914	901	759
85°	198	302	309	298	280	211
90°	75	163	178	168	157	46
95°	77	120	134	117	107	62
105°	62	90	118	98	83	65
115°	32	58	102	91	80	33
125°	13	21	67	75	72	12
135°	5	5	32	50	53	4
145°	3	2	6	21	26	2
155°	2	2	2	2	3	1
165°	2	2	2	2	0	1
175°	3	3	2	2	2	0
180°	2	2	2	2	2	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4443.3	4443.3	4443.3	4443.3	4443.3
2.5°	4464.1	4448.1	4424.1	4456.1	4448.1
5°	4456.1	4436.9	4419.3	4457.7	4448.1
7.5°	4420.9	4417.7	4404.9	4436.9	4428.9
10°	4374.5	4384.1	4363.3	4388.9	4387.3
12.5°	4320.1	4344.1	4320.1	4326.5	4316.9
15°	4262.5	4276.9	4249.7	4257.7	4252.9
17.5°	4182.5	4203.3	4158.5	4198.5	4182.5
20°	4091.3	4112.1	4065.7	4110.5	4099.3
22.5°	3988.9	4008.1	3979.3	4011.3	4003.3
25°	3881.7	3894.5	3873.7	3902.5	3897.7
27.5°	3748.9	3779.3	3752.1	3787.3	3772.9
30°	3630.5	3641.7	3622.5	3665.7	3654.5
32.5°	3488.1	3496.1	3496.1	3534.5	3553.7
35°	3337.7	3345.7	3364.9	3422.5	3456.1
37.5°	3179.3	3196.9	3214.5	3328.1	3364.9
40°	3019.2	3032.0	3075.2	3240.1	3264.1
42.5°	2852.8	2865.6	2964.8	3145.7	3153.7
45°	2672.0	2699.2	2876.8	3017.6	3004.8
47.5°	2500.8	2534.4	2787.2	2854.4	2867.2
50°	2334.4	2372.8	2697.6	2723.2	2756.8
52.5°	2155.2	2228.8	2569.6	2604.8	2675.2
55°	1982.4	2099.2	2411.2	2515.2	2574.4
57.5°	1817.6	1969.6	2238.4	2400.0	2416.0
60°	1641.6	1859.2	2100.8	2238.4	2240.0
62.5°	1473.6	1753.6	1964.8	2017.6	1995.2
65°	1315.2	1644.8	1795.2	1779.2	1755.2
67.5°	1153.6	1505.6	1585.6	1550.4	1534.4
70°	1006.4	1355.2	1352.0	1321.6	1312.0
72.5°	865.6	1168.0	1136.0	1108.8	1100.8
75°	713.6	988.8	934.4	913.6	900.8
77.5°	576.0	803.2	729.6	721.6	712.0
80°	440.0	612.8	563.2	564.8	555.2
82.5°	304.0	440.0	412.8	409.6	398.4
85°	198.4	302.4	308.8	297.6	280.0
87.5°	107.2	211.2	225.6	217.6	204.8
90°	75.2	163.2	177.6	168.0	156.8
92.5°	75.2	137.6	150.4	136.0	126.4
95°	76.8	120.0	134.4	116.8	107.2
97.5°	76.8	108.8	124.8	105.6	94.4
100°	73.6	102.4	121.6	100.8	89.6
102.5°	68.8	96.0	120.0	97.6	86.4
105°	62.4	89.6	118.4	97.6	83.2
107.5°	54.4	83.2	116.8	96.0	83.2
110°	46.4	75.2	113.6	96.0	81.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	40.0	67.2	108.8	94.4	81.6
115°	32.0	57.6	102.4	91.2	80.0
117.5°	25.6	48.0	94.4	88.0	78.4
120°	20.8	38.4	86.4	84.8	76.8
122.5°	16.0	28.8	76.8	80.0	73.6
125°	12.8	20.8	67.2	75.2	72.0
127.5°	9.6	14.4	57.6	70.4	67.2
130°	8.0	8.0	48.0	64.0	62.4
132.5°	6.4	6.4	40.0	57.6	59.2
135°	4.8	4.8	32.0	49.6	52.8
137.5°	4.8	3.2	24.0	43.2	46.4
140°	3.2	3.2	17.6	35.2	38.4
142.5°	3.2	3.2	11.2	28.8	32.0
145°	3.2	1.6	6.4	20.8	25.6
147.5°	3.2	1.6	3.2	14.4	19.2
150°	1.6	1.6	1.6	9.6	12.8
152.5°	1.6	1.6	1.6	4.8	6.4
155°	1.6	1.6	1.6	1.6	3.2
157.5°	1.6	1.6	1.6	1.6	0.0
160°	1.6	1.6	1.6	1.6	0.0
162.5°	1.6	1.6	1.6	1.6	0.0
165°	1.6	1.6	1.6	1.6	0.0
167.5°	3.2	1.6	1.6	1.6	0.0
170°	3.2	1.6	1.6	1.6	0.0
172.5°	3.2	3.2	1.6	1.6	0.0
175°	3.2	3.2	1.6	1.6	1.6
177.5°	3.2	3.2	1.6	1.6	1.6
180°	1.6	1.6	1.6	1.6	1.6

(END OF REPORT)