

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: P397304

Luminaire Tested: **8VRVT2-LD5-12-DR-UNV-LA59-CD2-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P397304
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-LA59-CD2-WL-U
Description:
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3470.3 lumens
Efficiency: N/A
Efficacy: 22.4 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

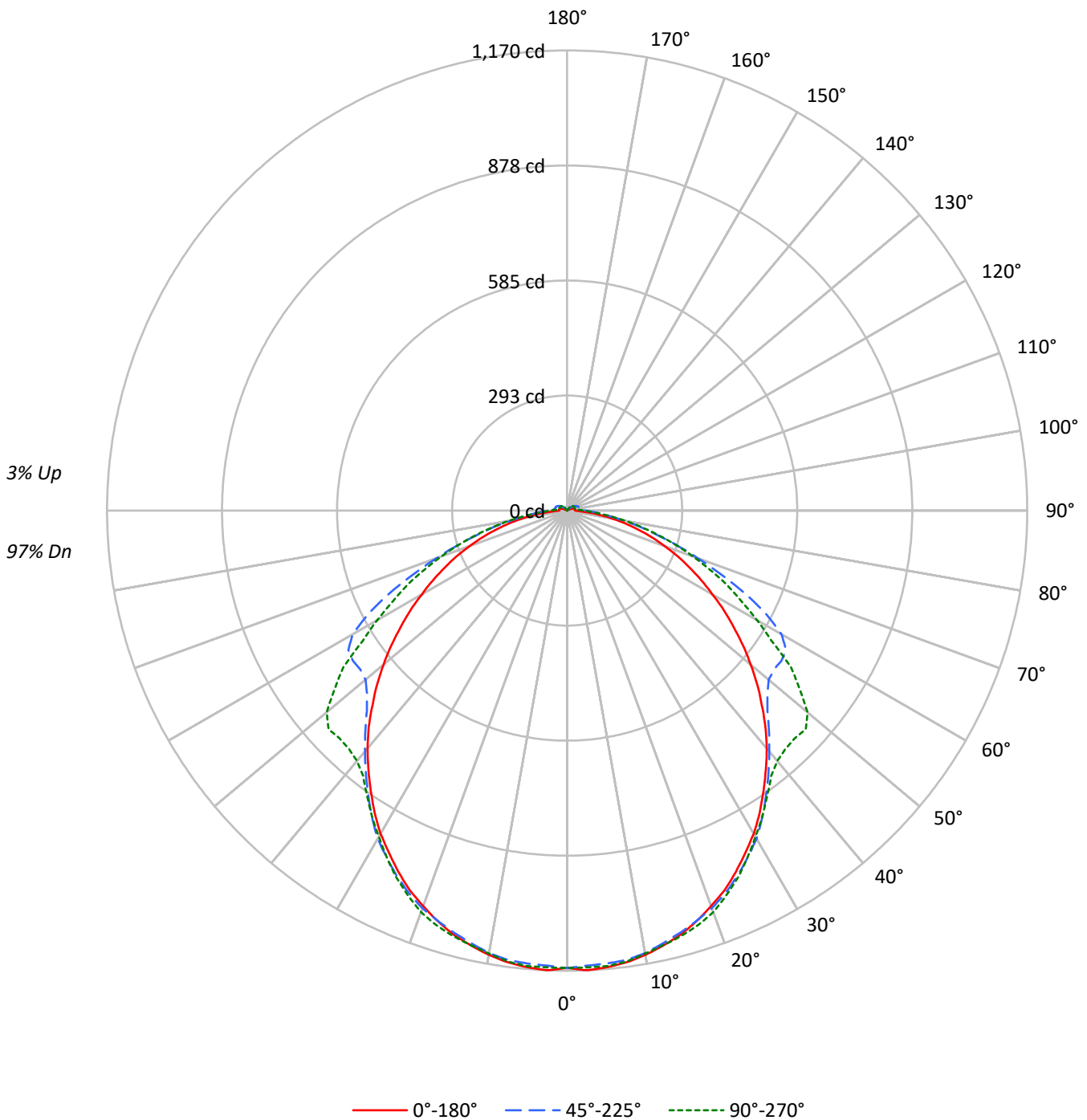
Input Watts (W): 154.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3005	3005	3005
5°	3017	2933	2929
10°	2998	2870	2833
15°	2969	2785	2750
20°	2921	2711	2664
25°	2864	2616	2538
30°	2797	2511	2395
35°	2706	2367	2267
40°	2619	2229	2190
45°	2507	2105	2243
50°	2392	2072	2295
55°	2263	2208	2121
60°	2131	2270	1827
65°	2012	1986	1601
70°	1889	1580	1338
75°	1737	1212	1064
80°	1542	886	775
85°	1269	637	494



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.4	3.2
10°-20°	315.4	9.1
20°-30°	471.4	13.6
30°-40°	552.2	15.9
40°-50°	577.9	16.7
50°-60°	559.0	16.1
60°-70°	434.5	12.5
70°-80°	256.3	7.4
80°-90°	92.4	2.7
90°-100°	34.4	1.0
100°-110°	25.8	0.7
110°-120°	20.0	0.6
120°-130°	12.7	0.4
130°-140°	6.6	0.2
140°-150°	1.3	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	897.1	25.9
0°-40°	1449.4	41.8
0°-60°	2586.2	74.5
0°-90°	3369.5	97.1
90°-120°	80.2	2.3
90°-150°	100.8	2.9
90°-180°	101.0	2.9
0°-180°	3470.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1163	1163	1163	1163	1163	
5°	1165	1160	1156	1166	1163	111
15°	1116	1119	1111	1124	1120	314
25°	1014	1019	1025	1033	1029	467
35°	870	881	882	887	886	545
45°	700	712	720	789	819	541
55°	517	535	665	710	695	463
65°	343	413	499	446	449	341
75°	187	279	235	237	239	199
85°	53	83	83	82	80	57
90°	20	43	48	45	43	12
95°	21	31	35	30	27	17
105°	17	25	30	24	21	18
115°	8	16	27	23	20	9
125°	3	6	18	20	19	3
135°	2	1	10	15	15	1
145°	0	0	0	0	0	0
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°	1163.1	1163.1	1163.1	1163.1	1163.1
2.5°	1169.8	1164.2	1158.1	1165.4	1162.6
5°	1165.4	1159.8	1155.8	1165.9	1162.6
7.5°	1158.6	1154.7	1152.5	1160.9	1156.4
10°	1146.9	1145.2	1142.4	1150.8	1143.5
12.5°	1132.3	1134.0	1126.7	1136.2	1131.8
15°	1116.1	1119.4	1111.0	1124.5	1120.0
17.5°	1094.8	1098.7	1093.7	1110.5	1105.4
20°	1070.2	1072.4	1075.8	1087.5	1086.4
22.5°	1045.0	1046.6	1052.2	1061.2	1058.4
25°	1014.2	1018.6	1024.8	1032.6	1028.7
27.5°	981.1	987.8	994.0	1000.2	993.4
30°	948.6	952.0	963.2	962.6	957.6
32.5°	911.1	919.5	924.0	922.3	922.9
35°	870.2	881.4	882.0	887.0	886.5
37.5°	829.9	842.2	840.6	850.1	851.8
40°	789.6	798.0	799.7	816.5	831.0
42.5°	746.5	754.9	759.4	794.6	821.5
45°	700.0	712.3	720.2	789.0	818.7
47.5°	656.3	667.5	689.9	789.0	822.6
50°	609.3	622.7	669.2	787.4	798.0
52.5°	563.9	577.4	663.0	763.3	744.8
55°	516.9	534.8	665.3	709.5	695.0
57.5°	473.2	498.4	659.7	645.1	616.0
60°	426.7	463.7	629.4	573.4	557.8
62.5°	385.8	435.7	571.2	505.1	499.5
65°	343.3	412.7	499.0	445.8	449.1
67.5°	304.6	392.0	423.4	391.4	393.7
70°	263.8	367.4	352.8	339.9	339.4
72.5°	225.7	332.1	291.2	287.3	289.0
75°	187.0	279.4	234.6	237.4	239.1
77.5°	151.8	225.7	188.2	191.5	191.5
80°	115.4	168.6	143.9	150.1	150.6
82.5°	82.9	120.4	109.8	113.1	110.3
85°	52.6	82.9	82.9	82.3	80.1
87.5°	29.7	57.1	60.5	59.9	57.1
90°	20.2	43.1	47.6	45.4	42.6
92.5°	20.2	36.4	39.8	35.8	33.0
95°	20.7	31.4	34.7	30.2	26.9
97.5°	20.2	29.1	32.5	26.9	23.5
100°	19.6	26.9	31.4	25.2	21.8
102.5°	18.5	25.8	30.8	24.1	20.7
105°	16.8	24.6	30.2	24.1	20.7
107.5°	14.6	23.0	30.2	24.1	20.7
110°	12.9	20.7	29.7	23.5	20.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	10.6	18.5	28.6	23.5	20.2
115°	8.4	16.2	26.9	23.0	20.2
117.5°	7.3	13.4	25.2	23.0	20.2
120°	5.6	11.2	23.5	21.8	19.6
122.5°	4.5	8.4	21.3	21.3	19.0
125°	3.4	6.2	18.5	20.2	19.0
127.5°	2.8	4.5	16.2	19.0	18.5
130°	2.2	2.8	14.0	17.9	17.4
132.5°	1.7	1.7	11.8	16.2	16.2
135°	1.7	1.1	9.5	14.6	15.1
137.5°	1.1	1.1	7.3	12.3	13.4
140°	1.1	1.1	5.6	10.6	11.8
142.5°	1.1	1.1	3.9	8.4	9.5
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)