

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: P397212

Luminaire Tested: **2VRVT2-LD5-5-DR-UNV-LG52-CD1-WL-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P397212  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-355-1)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: 2VRVT2-LD5-5-DR-UNV-LG52-CD1-WL-U  
Description:  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4140.0 lumens  
Efficiency: N/A  
Efficacy: 44.6 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.23 / 1.35  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 2.08' x H: 0.17')  
CIE Type: Direct

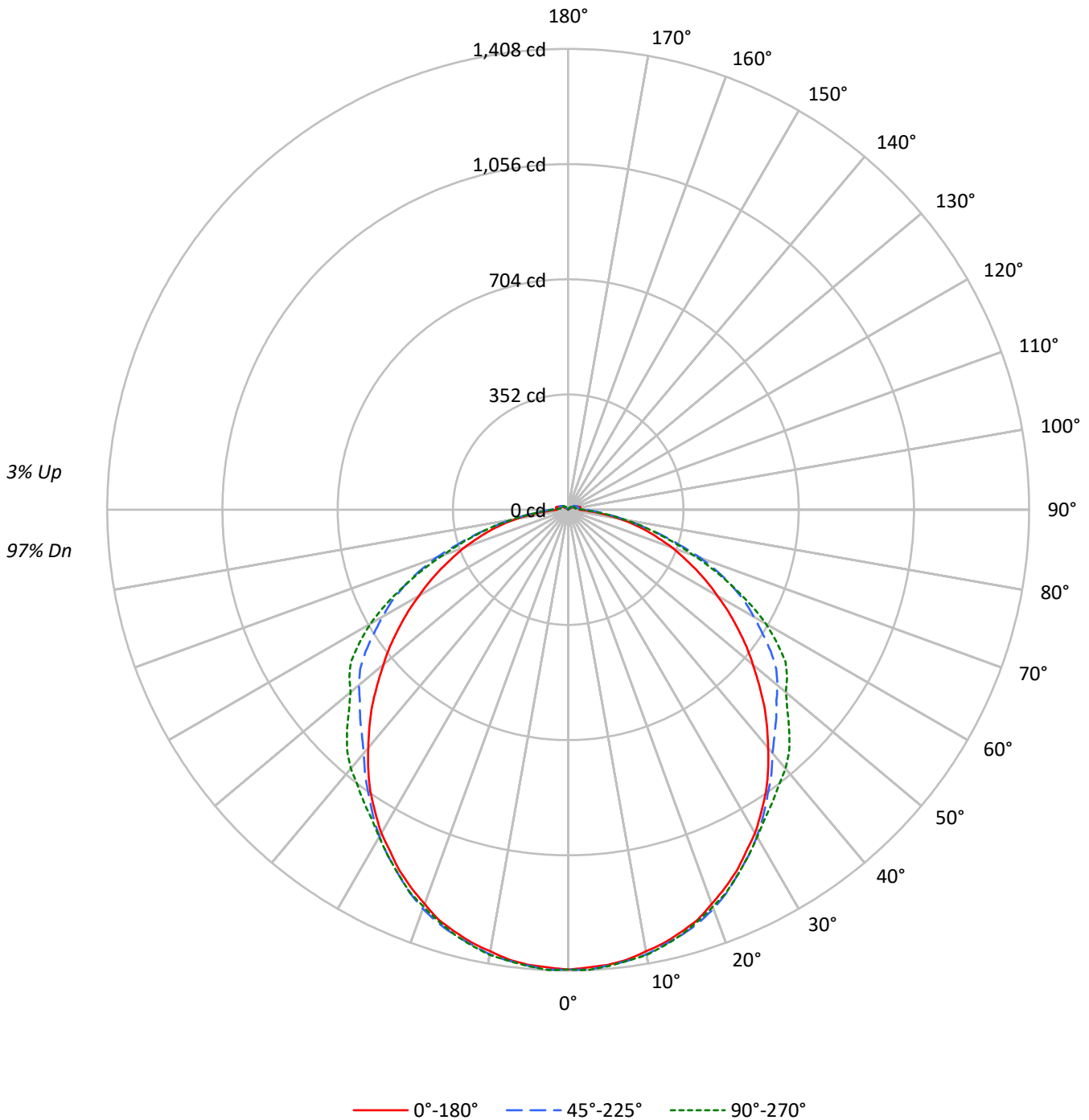
Input Watts (W): 92.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	110	110	110	104	104	104	100	100	100	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	78	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	56	49	44	53	48	43	41
6	69	55	46	40	67	54	46	40	52	45	39	50	44	38	48	42	38	36
7	64	50	41	35	62	49	41	35	47	40	34	46	39	34	44	38	34	31
8	59	46	37	31	58	45	37	31	43	36	31	42	35	30	41	35	30	28
9	56	42	34	28	54	41	33	28	40	33	28	39	32	27	37	31	27	25
10	52	39	31	25	51	38	31	25	37	30	25	36	29	25	35	29	25	23

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	14518	14518	14518
5°	14377	14144	14107
10°	14177	13766	13686
15°	13986	13342	13193
20°	13697	12900	12662
25°	13382	12324	12120
30°	13016	11774	11553
35°	12576	11123	11138
40°	12005	10520	10886
45°	11455	10163	10467
50°	10812	9950	9985
55°	10222	9601	9890
60°	9555	8987	9143
65°	8945	8315	7888
70°	8359	7182	6422
75°	7619	5576	5051
80°	6472	3901	3558
85°	4645	2598	2179



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	132.9	3.2
10°-20°	378.5	9.1
20°-30°	564.9	13.6
30°-40°	668.6	16.1
40°-50°	694.3	16.8
50°-60°	650.0	15.7
60°-70°	520.4	12.6
70°-80°	307.2	7.4
80°-90°	110.6	2.7
90°-100°	40.0	1.0
100°-110°	29.4	0.7
110°-120°	22.3	0.5
120°-130°	13.4	0.3
130°-140°	6.4	0.2
140°-150°	1.1	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1076.3	26.0
0°-40°	1744.9	42.1
0°-60°	3089.2	74.6
0°-90°	4027.4	97.3
90°-120°	91.6	2.2
90°-150°	112.6	2.7
90°-180°	113.0	2.7
0°-180°	4140.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1405	1405	1405	1405	1405	
5°	1396	1397	1398	1402	1400	132
15°	1335	1335	1345	1350	1343	377
25°	1218	1226	1228	1231	1228	560
35°	1053	1058	1062	1078	1089	657
45°	847	852	899	952	955	652
55°	632	651	755	788	810	566
65°	429	506	553	563	553	425
75°	248	316	292	287	284	261
85°	75	103	95	92	88	79
90°	34	55	52	48	47	20
95°	35	39	36	31	29	29
105°	35	31	29	24	20	36
115°	20	21	27	23	20	21
125°	9	9	17	19	19	8
135°	4	3	8	12	13	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



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1405.0	1405.0	1405.0	1405.0	1405.0
2.5°	1399.7	1403.8	1406.4	1409.1	1407.8
5°	1395.7	1397.0	1398.4	1402.4	1399.7
7.5°	1386.3	1386.3	1390.3	1394.3	1390.3
10°	1370.2	1371.6	1379.6	1386.3	1381.0
12.5°	1355.5	1356.9	1360.9	1372.9	1363.5
15°	1335.4	1335.4	1344.8	1350.2	1343.4
17.5°	1314.0	1314.0	1323.4	1324.7	1318.0
20°	1281.8	1284.5	1297.9	1293.9	1291.2
22.5°	1251.0	1255.0	1265.8	1267.1	1264.4
25°	1217.5	1225.6	1228.2	1231.0	1228.2
27.5°	1177.4	1188.1	1192.1	1190.7	1192.1
30°	1141.2	1147.9	1153.3	1154.6	1154.6
32.5°	1097.0	1103.7	1109.0	1114.4	1118.4
35°	1052.8	1058.2	1062.2	1078.2	1089.0
37.5°	1003.2	1011.3	1019.3	1046.1	1058.2
40°	949.7	957.7	971.1	1013.9	1032.7
42.5°	898.7	905.4	932.2	988.5	999.2
45°	846.6	851.8	898.7	952.3	955.0
47.5°	790.2	798.3	862.6	904.1	908.2
50°	736.7	748.7	834.5	858.6	867.9
52.5°	685.8	699.2	801.0	818.4	842.5
55°	632.2	651.0	755.4	787.6	810.3
57.5°	580.0	612.2	703.2	747.4	755.4
60°	526.4	574.6	655.0	696.5	697.8
62.5°	478.2	539.8	608.1	630.9	628.2
65°	428.6	506.3	553.2	562.6	553.2
67.5°	380.4	470.2	492.9	484.9	482.2
70°	337.5	423.3	428.6	411.2	407.2
72.5°	289.3	369.7	355.0	348.2	344.2
75°	247.8	316.1	292.0	286.6	283.9
77.5°	203.6	258.5	227.7	230.4	230.4
80°	158.1	200.9	174.2	176.8	172.8
82.5°	115.2	147.4	132.6	131.3	127.3
85°	75.0	103.1	95.1	92.4	88.4
87.5°	45.5	72.3	69.7	67.0	64.3
90°	33.5	54.9	52.2	48.2	46.9
92.5°	33.5	45.5	42.9	38.9	36.2
95°	34.8	38.9	36.2	30.8	29.4
97.5°	37.5	36.2	32.2	28.2	25.4
100°	37.5	33.5	30.8	25.4	22.8
102.5°	36.2	32.2	29.4	24.1	21.4
105°	34.8	30.8	29.4	24.1	20.1
107.5°	30.8	29.4	29.4	22.8	20.1
110°	28.2	26.8	28.2	22.8	20.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	24.1	24.1	28.2	22.8	20.1
115°	20.1	21.4	26.8	22.8	20.1
117.5°	17.4	17.4	24.1	21.4	20.1
120°	13.4	14.7	22.8	21.4	18.7
122.5°	10.7	12.1	20.1	20.1	18.7
125°	9.4	9.4	17.4	18.7	18.7
127.5°	6.7	6.7	14.7	17.4	17.4
130°	5.4	5.4	13.4	16.1	16.1
132.5°	5.4	4.0	10.7	14.7	14.7
135°	4.0	2.6	8.0	12.1	13.4
137.5°	2.6	2.6	6.7	10.7	12.1
140°	2.6	2.6	4.0	8.0	9.4
142.5°	2.6	1.4	2.6	6.7	8.0
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)