

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: P397362

Luminaire Tested: **8VRVT2-LD5-9-FR50-UNV-LG52-CD1-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P397362
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-355-18)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: 8VRVT2-LD5-9-FR50-UNV-LG52-CD1-WL-U
Description:
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7172.0 lumens
Efficiency: N/A
Efficacy: 45.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.23 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 8.33' x H: 0.17')
CIE Type: Direct

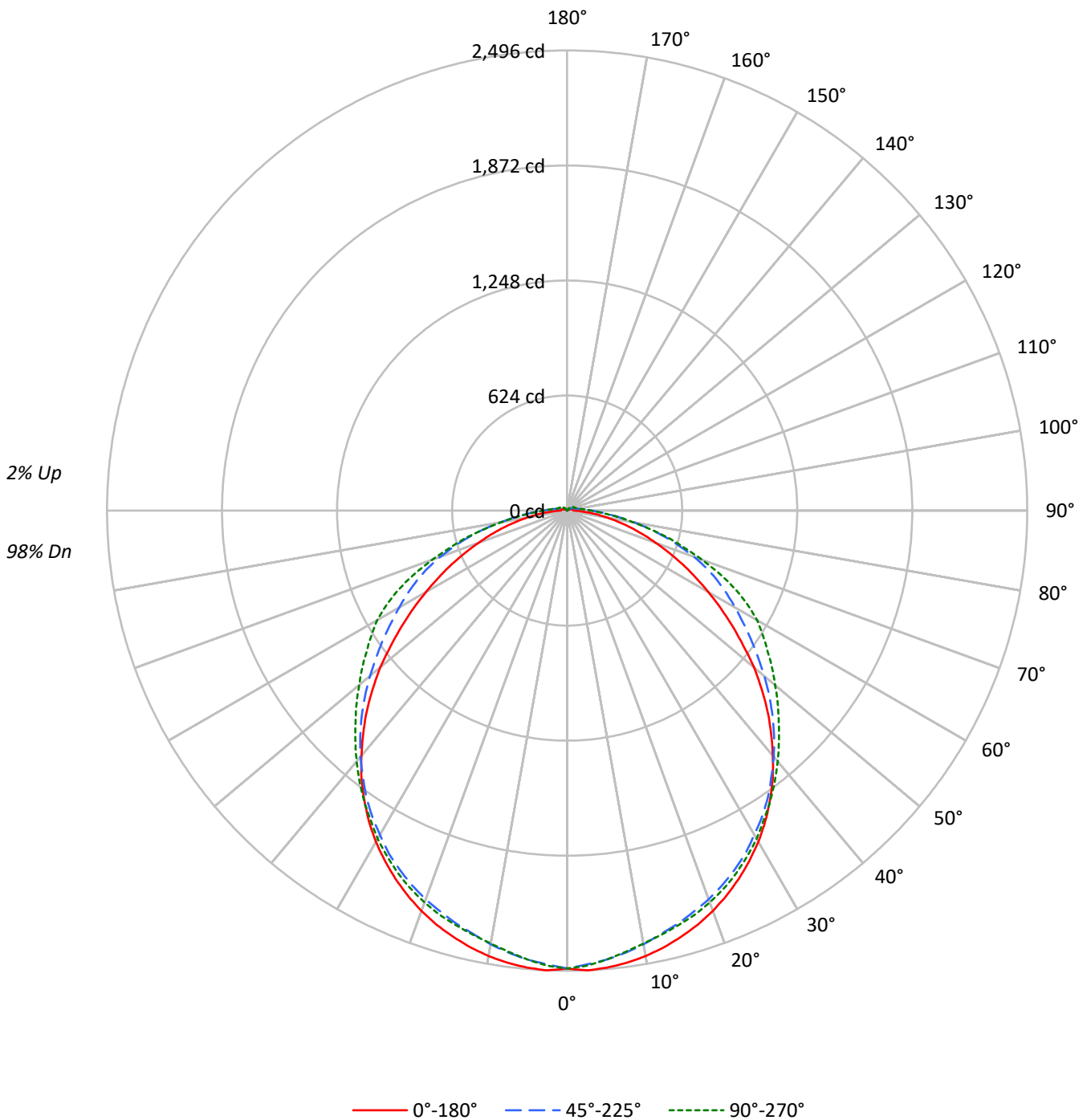
Input Watts (W): 156.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	105	105	100	100	100	98
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	78	73	79	75	71	76	72	69	67
3	89	78	70	63	86	76	69	62	73	66	61	70	64	60	67	62	58	56
4	81	69	60	53	79	68	59	53	65	58	52	62	56	51	60	54	50	48
5	75	62	53	46	73	61	52	46	58	51	45	56	49	44	54	48	43	41
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	49	43	38	36
7	64	50	42	35	62	50	41	35	48	40	35	46	39	34	45	39	34	32
8	60	46	37	32	58	45	37	31	44	36	31	42	36	31	41	35	30	28
9	56	42	34	28	54	42	34	28	40	33	28	39	32	28	38	32	27	26
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6416	6416	6416
5°	6441	6205	6161
10°	6413	6002	5907
15°	6365	5815	5716
20°	6306	5655	5545
25°	6222	5487	5354
30°	6118	5293	5143
35°	5965	5095	4913
40°	5756	4861	4682
45°	5505	4605	4448
50°	5193	4322	4236
55°	4801	4039	4048
60°	4418	3793	3897
65°	4048	3582	3583
70°	3649	3272	3060
75°	3322	2819	2516
80°	2952	2259	1865
85°	2649	1716	1325



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.0	3.2
10°-20°	661.3	9.2
20°-30°	997.7	13.9
30°-40°	1190.6	16.6
40°-50°	1214.0	16.9
50°-60°	1086.8	15.2
60°-70°	859.1	12.0
70°-80°	531.6	7.4
80°-90°	223.7	3.1
90°-100°	79.7	1.1
100°-110°	42.3	0.6
110°-120°	27.8	0.4
120°-130°	16.1	0.2
130°-140°	7.2	0.1
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°	1892.0	26.4
0°-40°	3082.6	43.0
0°-60°	5383.5	75.1
0°-90°	6997.9	97.6
90°-120°	149.8	2.1
90°-150°	174.1	2.4
90°-180°	174.0	2.4
0°-180°	7172.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2484	2484	2484	2484	2484	
5°	2488	2470	2445	2453	2445	236
15°	2392	2354	2320	2334	2328	675
25°	2203	2156	2149	2173	2170	1015
35°	1918	1883	1898	1921	1921	1198
45°	1537	1525	1576	1615	1623	1183
55°	1096	1121	1217	1303	1327	982
65°	691	739	900	992	1005	686
75°	358	432	546	567	566	381
85°	110	172	223	224	215	114
90°	36	90	133	134	130	24
95°	33	50	83	85	83	27
105°	26	25	44	50	49	27
115°	14	13	30	41	41	14
125°	6	4	19	29	33	6
135°	2	2	7	16	20	2
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°	2483.7	2483.7	2483.7	2483.7	2483.7
2.5°	2496.5	2482.5	2463.8	2476.6	2470.8
5°	2488.3	2469.6	2445.1	2453.3	2445.1
7.5°	2474.3	2451.0	2419.4	2422.9	2414.7
10°	2453.3	2425.2	2389.0	2392.5	2384.3
12.5°	2426.4	2392.5	2352.7	2365.6	2357.4
15°	2392.5	2353.9	2320.0	2334.1	2328.2
17.5°	2355.1	2313.0	2281.4	2303.7	2299.0
20°	2310.6	2263.9	2244.1	2265.1	2261.6
22.5°	2260.4	2210.2	2199.7	2223.0	2219.5
25°	2203.1	2156.4	2149.4	2172.8	2170.4
27.5°	2141.2	2092.1	2095.6	2115.5	2114.3
30°	2074.6	2031.4	2030.2	2057.0	2055.9
32.5°	1999.8	1956.6	1968.2	1989.3	1985.8
35°	1918.0	1882.9	1898.1	1921.4	1921.4
37.5°	1832.6	1799.9	1819.8	1844.3	1850.2
40°	1735.6	1711.1	1743.8	1773.0	1776.6
42.5°	1637.4	1621.1	1660.8	1693.6	1700.6
45°	1537.0	1525.3	1575.5	1615.3	1623.4
47.5°	1429.4	1429.4	1486.7	1534.6	1549.8
50°	1323.0	1323.0	1395.5	1455.1	1472.6
52.5°	1205.0	1221.4	1304.3	1375.7	1401.4
55°	1096.3	1120.9	1216.7	1303.2	1326.6
57.5°	988.8	1019.2	1131.4	1231.9	1258.8
60°	884.8	925.7	1051.9	1159.4	1189.8
62.5°	786.6	829.8	975.9	1081.1	1102.2
65°	690.7	738.6	900.0	992.3	1005.1
67.5°	598.4	660.4	820.5	890.6	895.3
70°	509.6	582.1	730.5	783.1	776.1
72.5°	432.5	504.9	638.2	674.4	662.7
75°	357.7	432.5	545.8	566.9	565.7
77.5°	287.5	361.1	455.8	467.5	455.8
80°	220.9	294.6	367.0	372.9	362.3
82.5°	164.8	227.9	288.7	292.2	286.3
85°	109.8	171.8	223.2	224.4	215.0
87.5°	66.6	125.0	170.6	173.0	166.0
90°	36.2	90.0	133.3	134.4	129.8
92.5°	33.9	65.4	102.9	105.2	102.9
95°	32.7	50.2	83.0	85.4	83.0
97.5°	32.7	40.9	67.8	71.3	69.0
100°	30.4	33.9	57.3	60.8	59.6
102.5°	29.2	28.1	50.2	55.0	52.6
105°	25.7	24.6	44.4	50.2	49.1
107.5°	23.4	21.0	40.9	46.7	45.6
110°	19.8	18.7	37.4	44.4	44.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	16.4	15.2	33.9	42.1	42.1
115°	14.0	12.9	30.4	40.9	40.9
117.5°	11.7	10.5	28.1	38.6	39.8
120°	9.4	8.2	24.6	35.0	37.4
122.5°	8.2	5.8	21.0	32.7	35.0
125°	5.8	3.5	18.7	29.2	32.7
127.5°	4.6	3.5	15.2	25.7	29.2
130°	3.5	2.3	12.9	23.4	25.7
132.5°	3.5	2.3	9.4	19.8	22.2
135°	2.3	2.3	7.0	16.4	19.8
137.5°	2.3	1.2	4.6	12.9	16.4
140°	2.3	1.2	2.3	10.5	12.9
142.5°	1.2	1.2	1.2	7.0	9.4
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)