

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: P397340

Luminaire Tested: **8VRVT2-LD5-22-DR100-UNV-LA59-CD2-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P397340
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-LD5-22-DR100-UNV-LA59-CD2-WL-U
Description:
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6032.0 lumens
Efficiency: N/A
Efficacy: 23.9 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

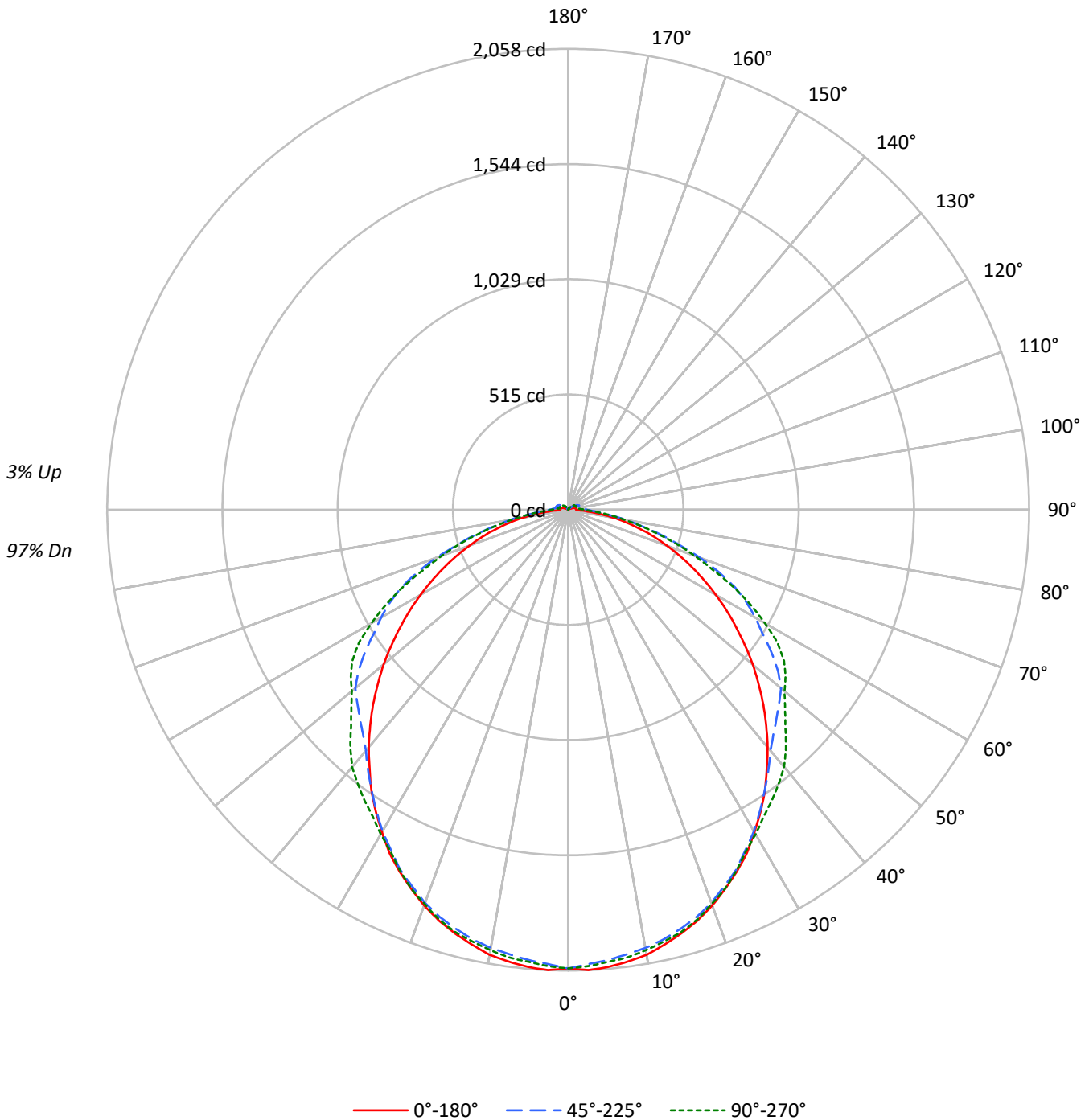
Input Watts (W): 252.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P397340

CATALOG NUMBER: 8VRVT2-LD5-22-DR100-UNV-LA59-CD2-WL-U

Luminous Intensity Polar Plot





TEST NUMBER: P397340

CATALOG NUMBER: 8VRVT2-LD5-22-DR100-UNV-LA59-CD2-WL-U

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	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°	5292	5292	5292
5°	5307	5123	5107
10°	5275	4993	4949
15°	5209	4857	4793
20°	5132	4707	4594
25°	5033	4528	4386
30°	4902	4322	4186
35°	4762	4106	4052
40°	4593	3916	3952
45°	4412	3845	3756
50°	4224	3842	3625
55°	4010	3674	3589
60°	3801	3476	3323
65°	3578	3272	2893
70°	3349	2796	2360
75°	3093	2185	1823
80°	2738	1608	1288
85°	2084	1075	830



TEST NUMBER: P397340

CATALOG NUMBER: 8VRVT2-LD5-22-DR100-UNV-LA59-CD2-WL-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.9	3.2
10°-20°	549.3	9.1
20°-30°	818.0	13.6
30°-40°	967.9	16.0
40°-50°	1010.8	16.8
50°-60°	951.0	15.8
60°-70°	762.7	12.6
70°-80°	442.6	7.3
80°-90°	157.7	2.6
90°-100°	61.5	1.0
100°-110°	46.3	0.8
110°-120°	35.2	0.6
120°-130°	21.6	0.4
130°-140°	10.5	0.2
140°-150°	3.5	0.1
150°-160°	0.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1560.2	25.9
0°-40°	2528.1	41.9
0°-60°	4490.0	74.4
0°-90°	5853.0	97.0
90°-120°	143.0	2.4
90°-150°	178.6	3.0
90°-180°	179.0	3.0
0°-180°	6032.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2049	2049	2049	2049	2049	
5°	2050	2039	2019	2029	2027	195
15°	1958	1943	1938	1957	1952	552
25°	1782	1772	1774	1786	1778	820
35°	1531	1529	1530	1563	1585	956
45°	1232	1238	1315	1380	1371	950
55°	916	961	1107	1147	1176	820
65°	610	760	822	816	812	607
75°	333	457	423	415	410	353
85°	86	141	140	137	135	97
90°	35	75	84	79	75	21
95°	36	56	62	55	50	29
105°	29	42	55	45	39	31
115°	15	26	48	42	37	16
125°	6	10	32	34	33	6
135°	3	2	15	23	24	2
145°	2	2	3	10	12	1
155°	1	1	1	1	2	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P397340

CATALOG NUMBER: 8VRVT2-LD5-22-DR100-UNV-LA59-CD2-WL-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2048.7	2048.7	2048.7	2048.7	2048.7
2.5°	2058.2	2047.2	2031.1	2045.8	2040.7
5°	2050.2	2039.2	2018.7	2028.9	2026.8
7.5°	2035.5	2020.9	2002.6	2018.7	2017.2
10°	2018.0	2001.1	1987.2	2002.6	1997.5
12.5°	1988.7	1975.5	1965.3	1983.6	1975.5
15°	1958.0	1943.3	1937.5	1957.2	1952.1
17.5°	1922.8	1911.1	1906.7	1917.7	1918.4
20°	1880.4	1871.6	1867.9	1882.6	1873.8
22.5°	1832.0	1819.6	1820.3	1835.7	1831.3
25°	1782.3	1772.0	1773.5	1786.0	1777.9
27.5°	1728.1	1716.4	1713.5	1726.6	1718.6
30°	1662.2	1660.0	1657.9	1668.8	1673.2
32.5°	1598.6	1597.8	1593.5	1608.8	1624.2
35°	1531.2	1529.0	1529.8	1563.4	1584.7
37.5°	1456.6	1458.8	1467.5	1521.7	1542.9
40°	1384.8	1385.6	1404.6	1485.8	1499.8
42.5°	1308.7	1310.2	1356.3	1441.9	1439.0
45°	1231.9	1238.4	1315.3	1380.5	1370.9
47.5°	1152.1	1164.5	1277.2	1311.6	1312.4
50°	1076.0	1092.1	1240.7	1248.7	1260.4
52.5°	994.7	1026.2	1179.2	1190.1	1223.1
55°	915.7	961.0	1106.7	1147.0	1176.2
57.5°	838.1	904.7	1028.4	1092.1	1108.2
60°	761.2	854.2	964.0	1015.9	1014.5
62.5°	685.8	805.9	896.6	920.8	917.1
65°	610.4	759.8	822.0	816.1	811.7
67.5°	540.9	696.8	726.8	702.7	695.4
70°	467.7	620.7	624.3	600.2	598.7
72.5°	401.8	538.7	516.7	505.0	505.8
75°	333.0	456.7	423.1	415.0	409.9
77.5°	268.6	366.7	333.8	332.3	329.4
80°	204.9	282.5	261.3	254.7	250.3
82.5°	142.7	204.2	191.0	191.0	188.1
85°	86.4	141.3	139.8	136.9	134.7
87.5°	48.3	97.4	104.7	101.8	95.9
90°	35.1	75.4	84.2	79.0	74.6
92.5°	35.1	63.7	70.3	64.4	59.3
95°	35.9	55.6	62.2	54.9	49.8
97.5°	35.9	51.2	58.5	49.8	44.7
100°	34.4	47.6	56.4	46.8	41.0
102.5°	32.2	44.7	54.9	45.4	39.5
105°	29.3	41.7	54.9	44.7	38.8
107.5°	25.6	38.8	53.4	44.7	38.1
110°	22.0	35.1	52.7	43.9	38.1



TEST NUMBER: P397340

CATALOG NUMBER: 8VRVT2-LD5-22-DR100-UNV-LA59-CD2-WL-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	19.0	30.7	50.5	43.2	37.3
115°	15.4	26.3	47.6	42.4	36.6
117.5°	12.4	22.0	43.9	41.0	35.9
120°	10.2	17.6	39.5	38.8	35.1
122.5°	7.3	13.2	35.9	37.3	34.4
125°	5.9	10.2	31.5	34.4	32.9
127.5°	5.1	6.6	27.1	32.2	31.5
130°	3.7	4.4	22.7	29.3	29.3
132.5°	2.9	2.9	18.3	26.3	27.1
135°	2.9	2.2	14.6	23.4	24.2
137.5°	2.2	2.2	11.7	19.8	21.2
140°	1.5	1.5	8.1	16.1	18.3
142.5°	1.5	1.5	5.1	13.2	14.6
145°	1.5	1.5	2.9	10.2	11.7
147.5°	1.5	0.7	1.5	7.3	8.8
150°	1.5	0.7	0.7	4.4	5.9
152.5°	0.7	0.7	0.7	2.2	3.7
155°	0.7	0.7	0.7	0.7	1.5
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)