

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: P397346

Luminaire Tested: **8VRVT2-LD5-22-FR50-UNV-LA59-CD2-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P397346
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-355-13)
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-FR50-UNV-LA59-CD2-WL-U
Description:
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5947.2 lumens
Efficiency: N/A
Efficacy: 23.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.25 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 8.33' x H: 0.17')
CIE Type: Direct

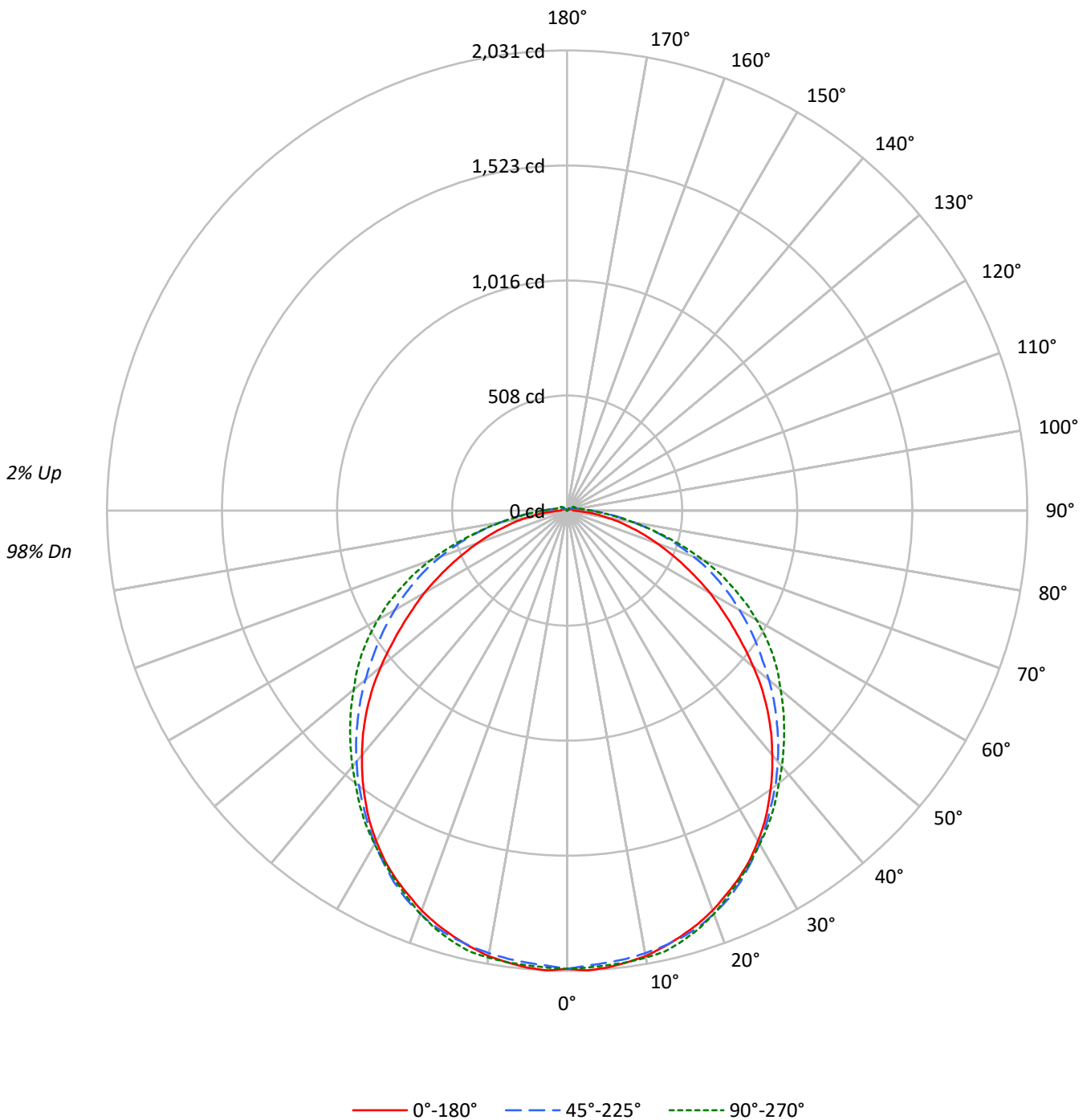
Input Watts (W): 252.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	81
2	98	89	82	76	95	87	81	75	83	78	73	80	75	71	76	72	69	67
3	89	78	70	63	86	76	69	63	73	67	61	70	64	60	67	62	58	56
4	81	69	60	54	79	68	60	53	65	58	52	62	56	51	60	55	50	48
5	75	62	53	46	73	61	52	46	58	51	45	56	49	44	54	48	44	41
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	49	43	38	36
7	64	51	42	36	62	50	41	35	48	40	35	46	39	34	45	39	34	32
8	60	46	38	32	58	45	37	32	44	36	31	42	36	31	41	35	30	29
9	56	42	34	29	54	42	34	28	40	33	28	39	33	28	38	32	28	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°	5225	5225	5225
5°	5241	5084	5076
10°	5218	4984	4964
15°	5174	4890	4829
20°	5126	4774	4644
25°	5060	4618	4437
30°	4969	4427	4252
35°	4836	4226	4075
40°	4671	4033	3885
45°	4481	3821	3712
50°	4215	3600	3537
55°	3901	3382	3381
60°	3637	3170	3160
65°	3317	2949	2883
70°	3019	2655	2525
75°	2720	2288	2032
80°	2416	1820	1522
85°	2154	1401	1083



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.7	3.2
10°-20°	551.7	9.3
20°-30°	831.1	14.0
30°-40°	989.7	16.6
40°-50°	1010.4	17.0
50°-60°	905.5	15.2
60°-70°	706.7	11.9
70°-80°	435.0	7.3
80°-90°	181.4	3.0
90°-100°	65.3	1.1
100°-110°	35.2	0.6
110°-120°	23.0	0.4
120°-130°	13.1	0.2
130°-140°	5.8	0.1
140°-150°	1.4	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1574.5	26.5
0°-40°	2564.2	43.1
0°-60°	4480.1	75.3
0°-90°	5803.2	97.6
90°-120°	123.5	2.1
90°-150°	143.8	2.4
90°-180°	144.0	2.4
0°-180°	5947.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2022	2022	2022	2022	2022	
5°	2025	2017	2004	2017	2014	192
15°	1945	1946	1951	1973	1967	549
25°	1792	1807	1809	1806	1798	825
35°	1555	1588	1575	1592	1594	972
45°	1251	1283	1307	1345	1355	963
55°	891	943	1019	1087	1108	800
65°	566	625	741	802	809	563
75°	293	357	443	465	457	314
85°	89	139	182	182	176	92
90°	29	74	108	109	106	19
95°	26	42	67	70	68	21
105°	20	20	37	42	41	22
115°	11	10	26	34	35	11
125°	5	3	15	24	26	4
135°	2	2	6	13	15	2
145°	1	1	1	4	5	1
155°	1	1	1	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°	2022.5	2022.5	2022.5	2022.5	2022.5
2.5°	2031.3	2024.0	2010.1	2023.3	2018.9
5°	2024.7	2017.4	2003.5	2017.4	2014.5
7.5°	2012.3	2007.2	1995.4	2012.3	2010.8
10°	1996.2	1991.1	1983.7	2004.2	2003.5
12.5°	1972.0	1969.8	1969.1	1994.7	1993.2
15°	1944.9	1945.7	1950.8	1972.7	1966.9
17.5°	1914.2	1918.6	1927.4	1940.5	1934.7
20°	1878.3	1885.6	1894.4	1899.5	1894.4
22.5°	1834.4	1847.6	1856.4	1852.7	1846.1
25°	1791.9	1806.6	1808.8	1805.9	1798.5
27.5°	1742.2	1760.5	1753.9	1757.5	1749.5
30°	1685.1	1710.7	1698.3	1704.8	1699.7
32.5°	1624.3	1654.3	1637.5	1648.5	1649.9
35°	1554.8	1587.7	1574.6	1592.1	1593.6
37.5°	1484.5	1518.9	1513.1	1535.0	1531.3
40°	1408.4	1446.5	1446.5	1470.6	1474.3
42.5°	1333.0	1365.2	1379.1	1407.6	1415.0
45°	1251.0	1283.2	1307.3	1344.7	1354.9
47.5°	1166.8	1202.7	1237.1	1278.1	1293.5
50°	1073.9	1117.0	1162.4	1215.9	1229.8
52.5°	980.1	1028.5	1087.7	1152.2	1171.9
55°	890.8	942.8	1018.9	1087.0	1108.2
57.5°	805.9	859.4	948.7	1020.4	1038.7
60°	728.3	774.5	879.1	953.8	964.8
62.5°	644.9	699.8	811.0	879.9	892.3
65°	565.9	625.1	740.8	801.6	808.9
67.5°	491.2	551.9	669.8	723.2	732.0
70°	421.6	486.1	592.9	637.6	640.5
72.5°	358.0	420.9	516.8	552.7	547.5
75°	292.8	357.2	442.9	464.8	456.8
77.5°	237.9	296.5	368.2	384.3	371.9
80°	180.8	237.2	295.7	301.6	295.7
82.5°	132.5	185.2	235.7	237.2	228.4
85°	89.3	139.1	182.3	182.3	175.7
87.5°	50.5	101.8	139.1	140.5	133.2
90°	29.3	73.9	107.6	109.1	106.1
92.5°	27.1	53.4	84.2	86.4	83.4
95°	26.3	41.7	67.3	70.3	68.1
97.5°	25.6	33.7	56.4	58.5	57.1
100°	24.9	27.8	47.6	51.2	50.5
102.5°	22.7	24.2	41.7	45.4	44.7
105°	20.5	20.5	37.3	41.7	41.0
107.5°	18.3	17.6	33.7	39.5	38.8
110°	15.4	15.4	30.7	37.3	37.3



TEST NUMBER: P397346

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	13.2	13.2	27.8	35.9	35.9
115°	11.0	10.2	25.6	33.7	35.1
117.5°	8.8	8.8	22.7	31.5	32.9
120°	7.3	6.6	19.8	29.3	31.5
122.5°	5.9	4.4	17.6	26.3	29.3
125°	5.1	2.9	14.6	24.2	26.3
127.5°	3.7	2.2	12.4	21.2	24.2
130°	2.9	2.2	10.2	18.3	21.2
132.5°	2.9	1.5	8.1	15.4	18.3
135°	2.2	1.5	5.9	13.2	15.4
137.5°	1.5	1.5	3.7	11.0	13.2
140°	1.5	1.5	2.2	8.1	10.2
142.5°	1.5	0.7	0.7	5.9	8.1
145°	0.7	0.7	0.7	3.7	5.1
147.5°	0.7	0.7	0.7	1.5	2.9
150°	0.7	0.7	0.7	0.0	0.7
152.5°	0.7	0.7	0.7	0.0	0.0
155°	0.7	0.7	0.7	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)