

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: P397213

Luminaire Tested: **2VRVT2-LD5-5-DR-UNV-LR63-CD1-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P397213
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-LR63-CD1-WL-U
Description:
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 828.0 lumens
Efficiency: N/A
Efficacy: 8.2 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

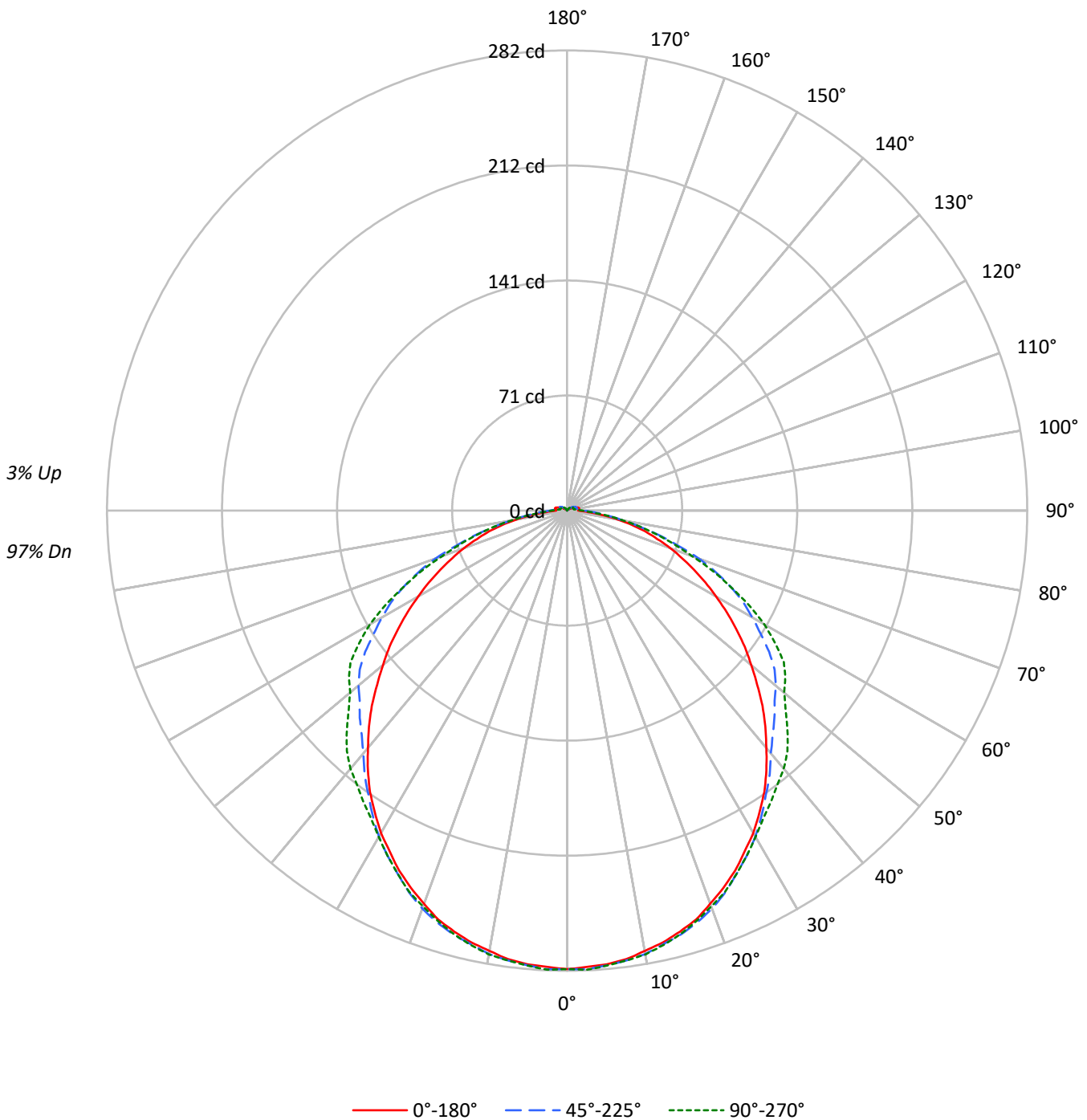
Input Watts (W): 101
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P397213

CATALOG NUMBER: 2VRVT2-LD5-5-DR-UNV-LR63-CD1-WL-U

Luminous Intensity Polar Plot





TEST NUMBER: P397213

CATALOG NUMBER: 2VRVT2-LD5-5-DR-UNV-LR63-CD1-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	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°	2904	2904	2904
5°	2875	2829	2821
10°	2835	2753	2737
15°	2797	2669	2639
20°	2740	2580	2532
25°	2676	2464	2424
30°	2603	2355	2310
35°	2516	2224	2228
40°	2400	2104	2177
45°	2291	2032	2093
50°	2162	1990	1997
55°	2044	1921	1978
60°	1911	1797	1829
65°	1789	1662	1577
70°	1672	1436	1284
75°	1525	1115	1011
80°	1294	779	712
85°	929	519	436



TEST NUMBER: P397213

CATALOG NUMBER: 2VRVT2-LD5-5-DR-UNV-LR63-CD1-WL-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.6	3.2
10°-20°	75.7	9.1
20°-30°	113.0	13.6
30°-40°	133.7	16.1
40°-50°	138.8	16.8
50°-60°	130.0	15.7
60°-70°	104.1	12.6
70°-80°	61.4	7.4
80°-90°	22.1	2.7
90°-100°	8.0	1.0
100°-110°	5.9	0.7
110°-120°	4.5	0.5
120°-130°	2.7	0.3
130°-140°	1.3	0.2
140°-150°	0.2	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	215.3	26.0
0°-40°	349.0	42.1
0°-60°	617.8	74.6
0°-90°	805.5	97.3
90°-120°	18.3	2.2
90°-150°	22.5	2.7
90°-180°	23.0	2.8
0°-180°	828.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	281	281	281	281	281	
5°	279	279	280	280	280	26
15°	267	267	269	270	269	75
25°	244	245	246	246	246	112
35°	211	212	212	216	218	131
45°	169	170	180	190	191	130
55°	126	130	151	158	162	113
65°	86	101	111	112	111	85
75°	50	63	58	57	57	52
85°	15	21	19	18	18	16
90°	7	11	10	10	9	4
95°	7	8	7	6	6	6
105°	7	6	6	5	4	7
115°	4	4	5	5	4	4
125°	2	2	4	4	4	2
135°	1	0	2	2	3	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



TEST NUMBER: P397213

CATALOG NUMBER: 2VRVT2-LD5-5-DR-UNV-LR63-CD1-WL-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	281.0	281.0	281.0	281.0	281.0
2.5°	279.9	280.8	281.3	281.8	281.6
5°	279.1	279.4	279.7	280.5	279.9
7.5°	277.3	277.3	278.1	278.9	278.1
10°	274.0	274.3	275.9	277.3	276.2
12.5°	271.1	271.4	272.2	274.6	272.7
15°	267.1	267.1	269.0	270.0	268.7
17.5°	262.8	262.8	264.7	264.9	263.6
20°	256.4	256.9	259.6	258.8	258.2
22.5°	250.2	251.0	253.2	253.4	252.9
25°	243.5	245.1	245.6	246.2	245.6
27.5°	235.5	237.6	238.4	238.1	238.4
30°	228.2	229.6	230.7	230.9	230.9
32.5°	219.4	220.7	221.8	222.9	223.7
35°	210.6	211.6	212.4	215.6	217.8
37.5°	200.6	202.3	203.9	209.2	211.6
40°	189.9	191.5	194.2	202.8	206.5
42.5°	179.7	181.1	186.4	197.7	199.8
45°	169.3	170.4	179.7	190.5	191.0
47.5°	158.0	159.7	172.5	180.8	181.6
50°	147.3	149.7	166.9	171.7	173.6
52.5°	137.2	139.8	160.2	163.7	168.5
55°	126.4	130.2	151.1	157.5	162.1
57.5°	116.0	122.4	140.6	149.5	151.1
60°	105.3	114.9	131.0	139.3	139.6
62.5°	95.6	108.0	121.6	126.2	125.6
65°	85.7	101.3	110.6	112.5	110.6
67.5°	76.1	94.0	98.6	97.0	96.4
70°	67.5	84.7	85.7	82.2	81.4
72.5°	57.9	73.9	71.0	69.6	68.8
75°	49.6	63.2	58.4	57.3	56.8
77.5°	40.7	51.7	45.5	46.1	46.1
80°	31.6	40.2	34.8	35.4	34.6
82.5°	23.0	29.5	26.5	26.3	25.5
85°	15.0	20.6	19.0	18.5	17.7
87.5°	9.1	14.5	13.9	13.4	12.9
90°	6.7	11.0	10.4	9.6	9.4
92.5°	6.7	9.1	8.6	7.8	7.2
95°	7.0	7.8	7.2	6.2	5.9
97.5°	7.5	7.2	6.4	5.6	5.1
100°	7.5	6.7	6.2	5.1	4.6
102.5°	7.2	6.4	5.9	4.8	4.3
105°	7.0	6.2	5.9	4.8	4.0
107.5°	6.2	5.9	5.9	4.6	4.0
110°	5.6	5.4	5.6	4.6	4.0



TEST NUMBER: P397213

CATALOG NUMBER: 2VRVT2-LD5-5-DR-UNV-LR63-CD1-WL-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	4.8	4.8	5.6	4.6	4.0
115°	4.0	4.3	5.4	4.6	4.0
117.5°	3.5	3.5	4.8	4.3	4.0
120°	2.7	2.9	4.6	4.3	3.7
122.5°	2.1	2.4	4.0	4.0	3.7
125°	1.9	1.9	3.5	3.7	3.7
127.5°	1.3	1.3	2.9	3.5	3.5
130°	1.1	1.1	2.7	3.2	3.2
132.5°	1.1	0.8	2.1	2.9	2.9
135°	0.8	0.5	1.6	2.4	2.7
137.5°	0.5	0.5	1.3	2.1	2.4
140°	0.5	0.5	0.8	1.6	1.9
142.5°	0.5	0.3	0.5	1.3	1.6
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)