

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: P397225

Luminaire Tested: **2VRVT2-LD5-5-FR50-UNV-LR63-CD1-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P397225
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-355-3)
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-FR50-UNV-LR63-CD1-WL-U
Description:
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 815.2 lumens
Efficiency: N/A
Efficacy: 8.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.24 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 2.08' x H: 0.17')
CIE Type: Direct

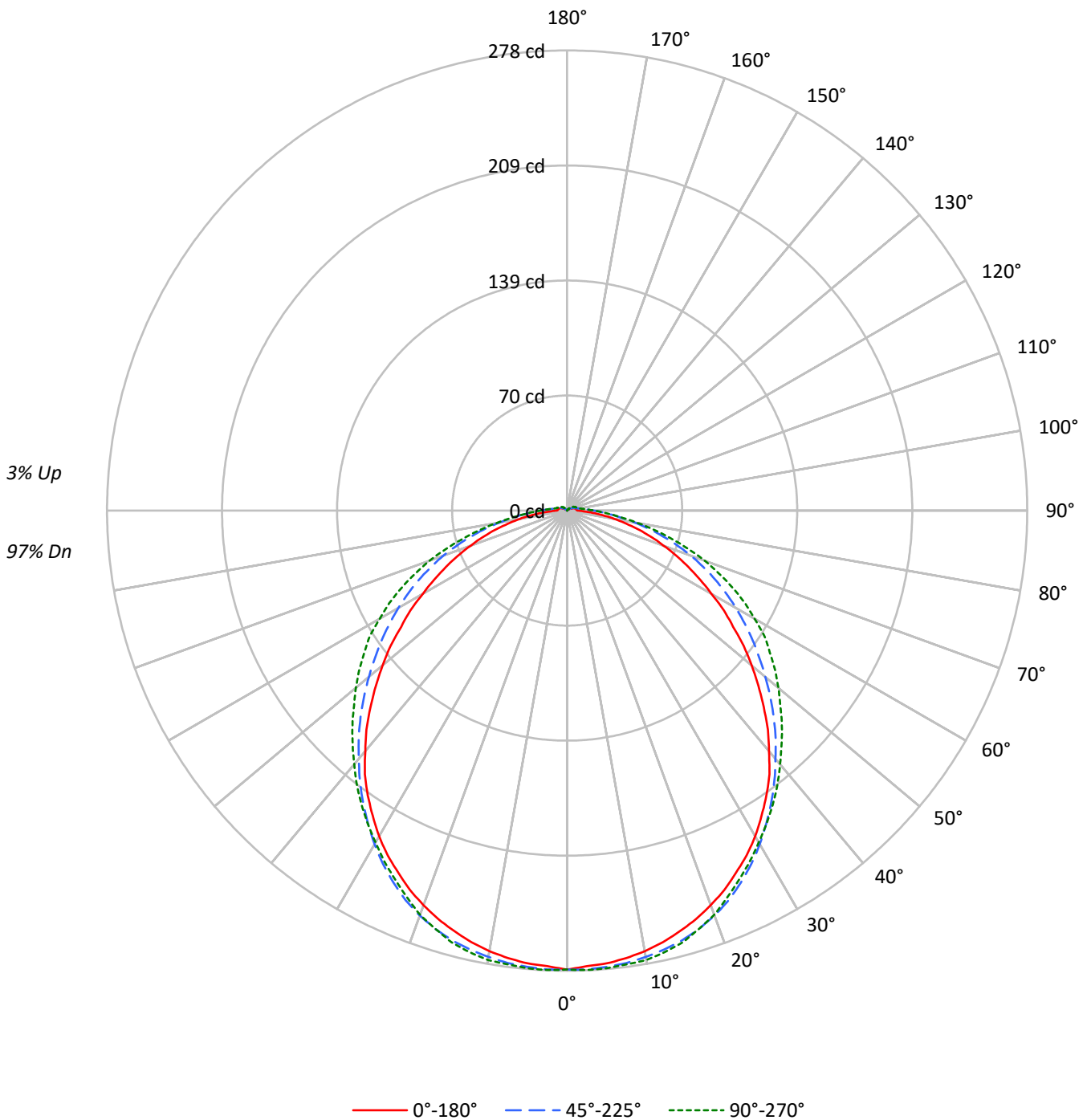
Input Watts (W): 101
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P397225

CATALOG NUMBER: 2VRVT2-LD5-5-FR50-UNV-LR63-CD1-WL-U

Luminous Intensity Polar Plot





TEST NUMBER: P397225

CATALOG NUMBER: 2VRVT2-LD5-5-FR50-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	99	99	99	97
1	107	102	98	94	104	100	96	92	95	92	89	91	88	85	87	84	82	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	69	62	73	66	61	70	64	59	67	62	58	56
4	81	69	60	53	79	68	59	53	65	57	52	62	56	51	60	54	50	47
5	75	62	53	46	72	60	52	46	58	51	45	56	49	44	54	48	43	41
6	69	56	47	40	67	54	46	40	52	45	39	50	44	39	49	43	38	36
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	44	38	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°	2865	2865	2865
5°	2829	2799	2797
10°	2797	2732	2732
15°	2756	2666	2652
20°	2711	2588	2549
25°	2653	2489	2426
30°	2591	2377	2316
35°	2509	2252	2216
40°	2398	2121	2109
45°	2273	1996	2011
50°	2135	1865	1917
55°	1979	1740	1825
60°	1828	1618	1712
65°	1688	1485	1574
70°	1538	1334	1394
75°	1384	1140	1153
80°	1195	923	894
85°	948	718	653



TEST NUMBER: P397225

CATALOG NUMBER: 2VRVT2-LD5-5-FR50-UNV-LR63-CD1-WL-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.3	3.2
10°-20°	75.5	9.3
20°-30°	113.4	13.9
30°-40°	134.3	16.5
40°-50°	136.3	16.7
50°-60°	122.4	15.0
60°-70°	96.1	11.8
70°-80°	60.9	7.5
80°-90°	26.9	3.3
90°-100°	10.3	1.3
100°-110°	5.8	0.7
110°-120°	3.7	0.5
120°-130°	2.1	0.3
130°-140°	0.9	0.1
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°	215.1	26.4
0°-40°	349.4	42.9
0°-60°	608.1	74.6
0°-90°	792.1	97.2
90°-120°	19.9	2.4
90°-150°	23.1	2.8
90°-180°	23.0	2.8
0°-180°	815.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	277	277	277	277	277	
5°	275	276	277	278	278	26
15°	263	265	269	270	270	74
25°	241	246	248	247	246	111
35°	210	215	215	216	217	131
45°	168	173	176	181	184	130
55°	122	128	137	146	150	110
65°	81	86	99	108	110	80
75°	45	50	60	65	65	48
85°	15	21	26	27	26	15
90°	6	12	16	17	16	4
95°	6	7	10	11	10	5
105°	5	4	6	6	6	5
115°	3	2	4	5	5	3
125°	1	1	2	4	4	1
135°	0	0	1	2	2	0
145°	0	0	0	0	1	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: P397225

CATALOG NUMBER: 2VRVT2-LD5-5-FR50-UNV-LR63-CD1-WL-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	277.3	277.3	277.3	277.3	277.3
2.5°	275.4	276.2	277.5	277.8	277.8
5°	274.6	275.7	276.7	277.5	277.5
7.5°	272.7	273.8	275.7	276.5	276.5
10°	270.3	271.6	273.8	275.4	275.7
12.5°	267.1	268.7	271.6	273.2	273.2
15°	263.1	265.2	268.7	270.3	270.0
17.5°	258.8	261.2	264.9	265.8	264.9
20°	253.7	256.6	260.4	260.9	259.9
22.5°	248.1	251.6	254.8	254.0	252.9
25°	241.4	245.7	248.1	246.7	245.9
27.5°	234.9	239.0	240.8	239.2	239.0
30°	227.2	231.7	232.8	231.7	231.5
32.5°	218.6	224.0	224.0	224.0	224.2
35°	210.0	214.6	215.1	215.9	216.7
37.5°	200.7	205.2	205.7	207.9	208.7
40°	189.7	194.8	195.8	199.0	200.1
42.5°	179.5	184.0	186.4	190.5	191.8
45°	168.0	173.1	176.5	181.4	183.5
47.5°	156.7	161.8	166.4	172.5	174.7
50°	145.5	150.6	156.4	163.7	166.6
52.5°	134.5	138.8	146.5	155.1	158.3
55°	122.4	127.8	136.9	146.3	149.5
57.5°	112.3	116.5	127.2	137.4	141.5
60°	100.7	105.6	117.9	128.0	130.7
62.5°	90.8	95.6	108.2	118.4	121.1
65°	80.9	85.5	98.8	108.0	110.4
67.5°	71.5	76.6	88.9	98.0	99.1
70°	62.1	67.5	79.6	87.3	88.4
72.5°	53.6	58.7	69.6	76.1	76.4
75°	45.0	50.1	59.7	64.8	64.8
77.5°	36.7	42.1	50.4	54.4	53.8
80°	29.2	34.0	41.2	43.4	43.4
82.5°	21.7	26.8	32.9	35.1	34.0
85°	15.3	20.6	26.3	27.3	26.5
87.5°	9.9	15.5	20.4	21.2	20.6
90°	6.4	11.5	16.1	16.6	16.3
92.5°	5.9	8.8	12.6	13.1	12.9
95°	5.6	7.0	10.2	10.7	10.4
97.5°	5.6	5.9	8.6	9.1	8.8
100°	5.4	5.1	7.2	7.8	7.5
102.5°	5.4	4.6	6.4	7.0	6.7
105°	4.8	4.0	5.6	6.4	6.2
107.5°	4.6	3.5	5.1	5.9	5.9
110°	4.0	2.9	4.6	5.6	5.6



TEST NUMBER: P397225

CATALOG NUMBER: 2VRVT2-LD5-5-FR50-UNV-LR63-CD1-WL-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	3.5	2.7	4.3	5.4	5.4
115°	2.9	2.4	3.7	4.8	5.1
117.5°	2.4	1.9	3.2	4.6	4.8
120°	2.1	1.6	2.9	4.3	4.6
122.5°	1.9	1.3	2.7	3.7	4.3
125°	1.3	0.8	2.1	3.5	3.7
127.5°	1.3	0.8	1.9	2.9	3.5
130°	1.1	0.8	1.6	2.7	2.9
132.5°	0.8	0.5	1.1	2.1	2.7
135°	0.5	0.5	0.8	1.9	2.1
137.5°	0.5	0.3	0.5	1.6	1.9
140°	0.3	0.3	0.3	1.1	1.3
142.5°	0.3	0.3	0.0	0.8	1.1
145°	0.3	0.3	0.0	0.5	0.8
147.5°	0.3	0.3	0.0	0.3	0.5
150°	0.3	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)