

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: P397231

Luminaire Tested: **2VRVT3-LD5-3-G-UNV-LR63-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P397231
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1709-268-12)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: 2VRVT3-LD5-3-G-UNV-LR63-CD1-U
Description:
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

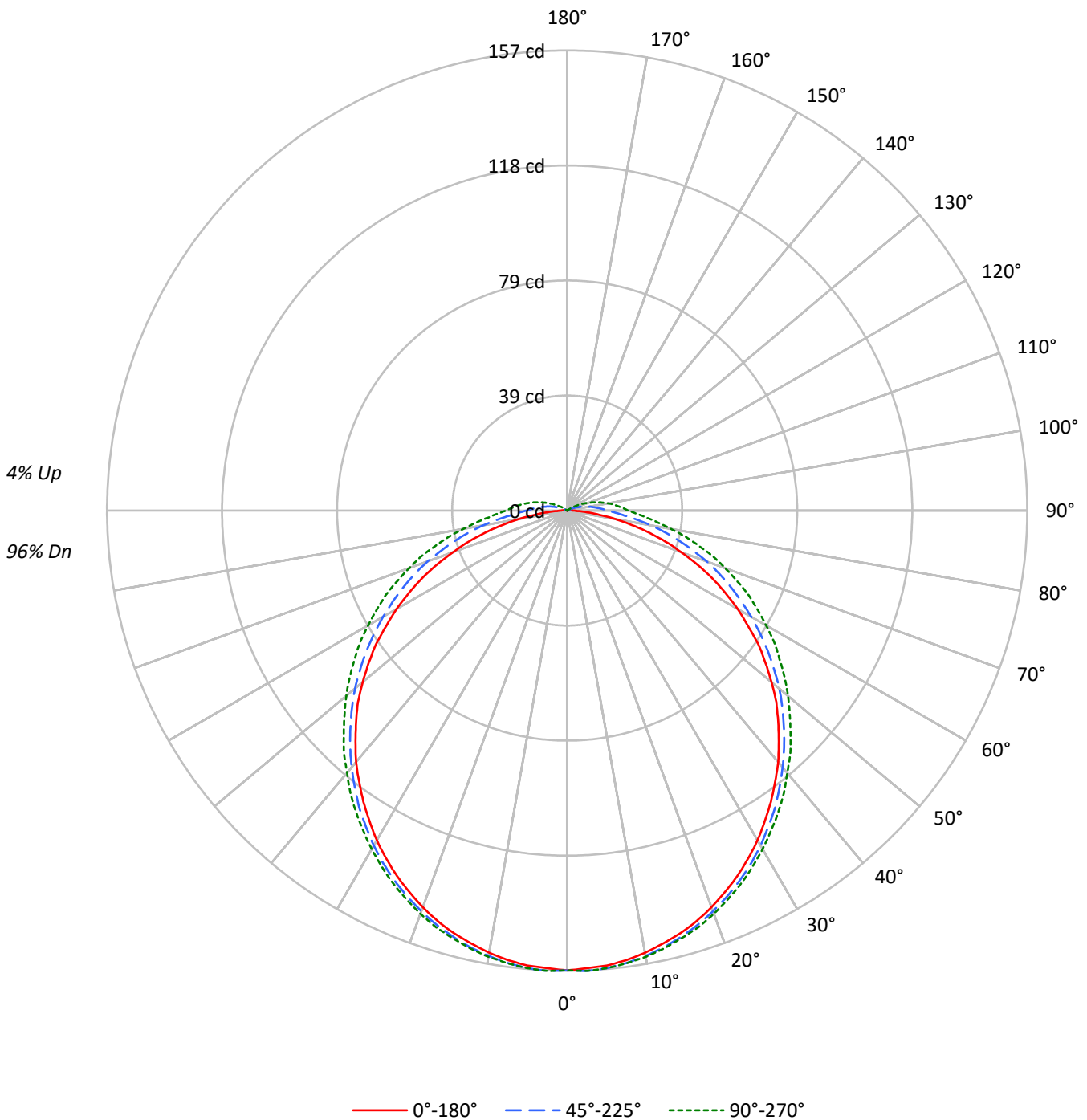
Lumens per Lamp: N/A
Luminaire Lumens: 495.8 lumens
Efficiency: N/A
Efficacy: 8.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 2' x H: 1.04')
CIE Type: Direct

Input Watts (W): 62
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: P397231

CATALOG NUMBER: 2VRVT3-LD5-3-G-UNV-LR63-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P397231

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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	109	109	109	104	104	104	99	99	99	96
1	107	101	97	92	103	99	94	90	94	90	87	89	86	83	85	82	80	78
2	96	88	80	74	93	85	79	73	81	76	71	77	73	69	74	70	66	64
3	88	77	68	61	85	75	67	60	71	64	59	68	62	57	65	60	56	53
4	80	68	59	52	77	66	58	51	63	56	50	60	54	49	58	52	48	45
5	74	60	51	44	71	59	50	44	56	49	43	54	47	42	52	46	41	39
6	68	54	45	38	66	53	44	38	51	43	37	49	42	37	47	41	36	34
7	63	49	40	34	61	48	40	34	46	39	33	44	38	33	43	37	32	30
8	59	45	36	30	57	44	36	30	42	35	30	41	34	29	39	33	29	27
9	55	41	33	27	53	40	32	27	39	32	27	37	31	26	36	30	26	24
10	51	38	30	24	50	37	30	24	36	29	24	35	28	24	34	28	23	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2027	2027	2027
5°	1932	1712	1667
10°	1840	1470	1407
15°	1752	1280	1209
20°	1664	1125	1054
25°	1577	995	924
30°	1490	882	814
35°	1400	782	720
40°	1314	691	636
45°	1223	609	563
50°	1128	536	497
55°	1029	465	436
60°	914	399	380
65°	788	337	328
70°	642	278	275
75°	488	220	225
80°	320	164	176
85°	145	115	135



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.9	3.0
10°-20°	42.4	8.6
20°-30°	64.1	12.9
30°-40°	77.3	15.6
40°-50°	80.8	16.3
50°-60°	74.9	15.1
60°-70°	60.8	12.3
70°-80°	40.9	8.2
80°-90°	21.0	4.2
90°-100°	10.8	2.2
100°-110°	5.6	1.1
110°-120°	2.1	0.4
120°-130°	0.3	0.1
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	121.4	24.5
0°-40°	198.7	40.1
0°-60°	354.4	71.5
0°-90°	477.1	96.2
90°-120°	18.5	3.7
90°-150°	18.8	3.8
90°-180°	19.0	3.8
0°-180°	495.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	157	157	157	157	157	
5°	156	156	157	157	157	15
15°	149	150	150	151	151	42
25°	138	138	139	140	140	63
35°	121	122	124	125	126	76
45°	102	102	105	107	108	79
55°	80	80	84	87	88	71
65°	55	57	62	66	68	54
75°	29	33	40	45	47	30
85°	7	13	20	25	27	8
90°	2	7	14	19	21	1
95°	1	4	10	16	17	1
105°	1	1	5	9	11	1
115°	0	0	1	4	5	0
125°	0	0	0	0	1	0
135°	0	0	0	0	0	0
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: P397231

CATALOG NUMBER: 2VRVT3-LD5-3-G-UNV-LR63-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	156.9	156.9	156.9	156.9	156.9
2.5°	156.3	156.5	157.2	157.3	157.2
5°	155.8	156.0	156.7	156.8	156.7
7.5°	154.7	155.1	155.7	155.9	155.8
10°	153.2	153.6	154.3	154.6	154.6
12.5°	151.3	151.8	152.6	152.9	153.0
15°	149.3	149.8	150.5	151.0	151.0
17.5°	146.9	147.2	148.2	148.8	149.0
20°	144.0	144.4	145.5	146.3	146.4
22.5°	140.8	141.4	142.5	143.3	143.5
25°	137.5	138.0	139.3	140.2	140.4
27.5°	133.8	134.3	135.8	136.6	137.0
30°	129.9	130.5	132.0	133.2	133.4
32.5°	125.6	126.4	127.8	129.0	129.5
35°	121.2	122.0	123.7	124.9	125.6
37.5°	116.6	117.3	119.0	120.7	121.5
40°	112.0	112.7	114.4	116.1	116.8
42.5°	106.9	107.8	109.6	111.7	112.7
45°	101.8	102.5	104.6	106.8	107.8
47.5°	96.8	97.5	99.6	101.9	103.0
50°	91.0	91.8	94.5	97.2	98.4
52.5°	85.3	86.1	89.0	92.3	93.5
55°	79.7	80.5	83.6	87.1	88.5
57.5°	73.1	74.8	78.1	82.0	83.8
60°	67.3	68.7	72.5	76.7	78.4
62.5°	60.8	62.6	67.0	71.6	73.3
65°	54.6	56.6	61.5	66.5	68.3
67.5°	48.1	50.2	56.1	61.1	62.7
70°	41.3	44.4	50.6	55.5	57.3
72.5°	35.2	38.4	44.8	50.0	52.3
75°	28.8	32.6	39.5	44.6	46.6
77.5°	22.5	27.0	34.3	39.2	41.4
80°	17.0	21.7	29.0	34.1	35.9
82.5°	11.2	16.9	24.1	29.3	31.3
85°	6.8	12.6	19.7	25.1	26.9
87.5°	3.4	9.2	16.4	21.5	23.6
90°	2.0	7.0	13.8	18.9	20.8
92.5°	1.6	5.4	12.1	17.1	19.1
95°	1.2	4.0	10.4	15.5	17.4
97.5°	1.0	2.9	9.0	13.9	15.8
100°	0.8	2.1	7.6	12.3	14.2
102.5°	0.7	1.3	6.4	10.8	12.5
105°	0.6	0.8	5.1	9.3	10.9
107.5°	0.5	0.5	3.9	7.8	9.3
110°	0.4	0.4	2.8	6.4	7.9



TEST NUMBER: P397231

CATALOG NUMBER: 2VRVT3-LD5-3-G-UNV-LR63-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.4	0.4	2.0	5.1	6.4
115°	0.2	0.2	1.2	3.9	5.0
117.5°	0.2	0.2	0.6	2.8	3.8
120°	0.1	0.1	0.2	1.8	2.7
122.5°	0.1	0.1	0.1	1.0	1.7
125°	0.1	0.0	0.0	0.4	0.8
127.5°	0.0	0.0	0.0	0.0	0.2
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.1	0.0	0.0	0.0	0.0
135°	0.1	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
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)