

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: P397226

Luminaire Tested: **2VRVT3-LD5-2-G-UNV-LA59-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P397226
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-LD5-2-G-UNV-LA59-CD1-U
Description:
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

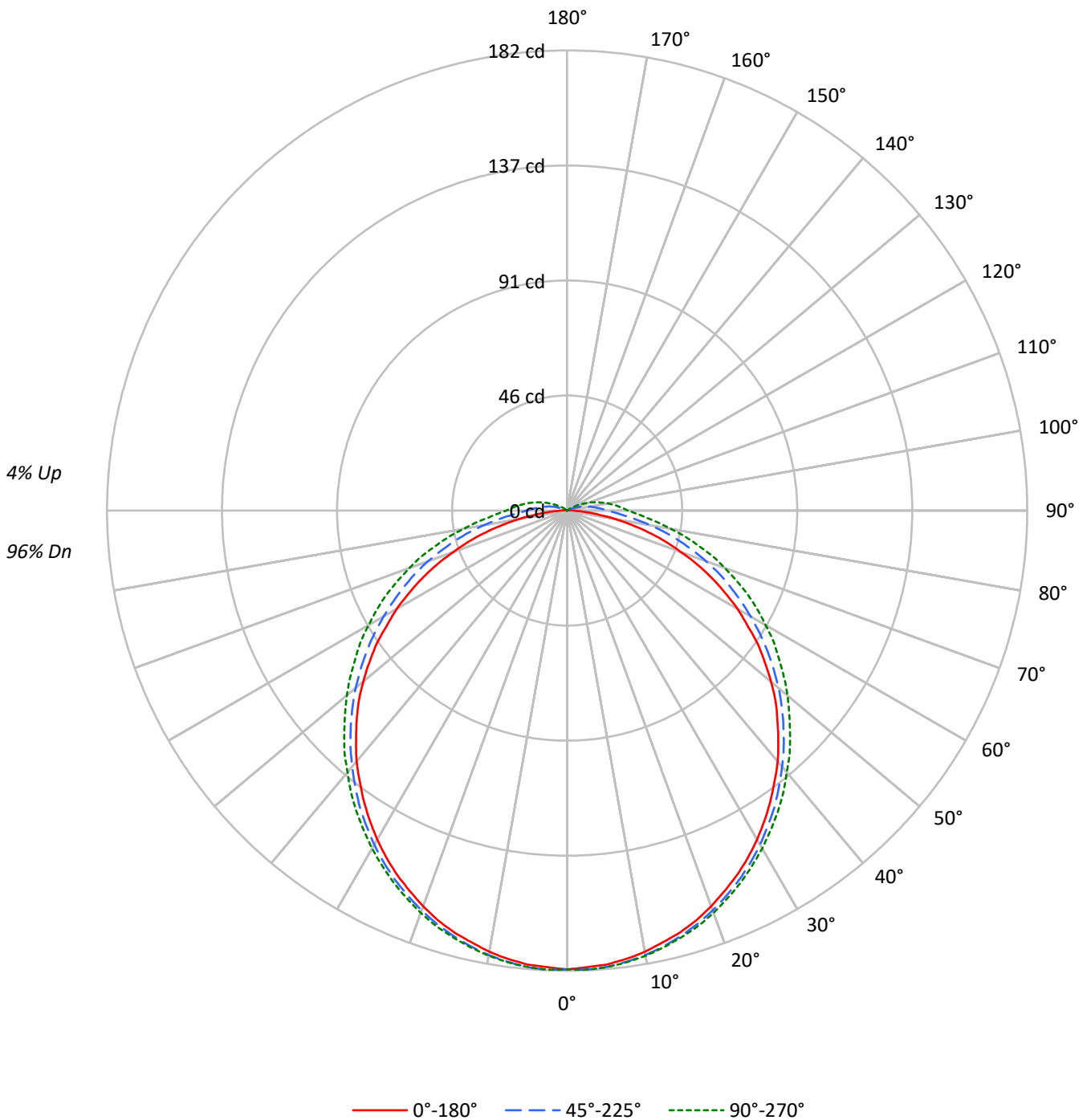
Lumens per Lamp: N/A
Luminaire Lumens: 573.4 lumens
Efficiency: N/A
Efficacy: 23.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 2' x H: 1.04')
CIE Type: Direct

Input Watts (W): 24
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: P397226

CATALOG NUMBER: 2VRVT3-LD5-2-G-UNV-LA59-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P397226

CATALOG NUMBER: 2VRVT3-LD5-2-G-UNV-LA59-CD1-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	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°	2344	2344	2344
5°	2235	1980	1928
10°	2129	1701	1628
15°	2027	1481	1399
20°	1924	1302	1218
25°	1823	1150	1069
30°	1722	1019	942
35°	1620	904	833
40°	1521	799	735
45°	1414	705	651
50°	1306	619	575
55°	1189	538	504
60°	1058	461	440
65°	912	389	380
70°	743	322	318
75°	565	254	260
80°	371	190	204
85°	168	133	156



TEST NUMBER: P397226

CATALOG NUMBER: 2VRVT3-LD5-2-G-UNV-LA59-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.2	3.0
10°-20°	49.1	8.6
20°-30°	74.1	12.9
30°-40°	89.3	15.6
40°-50°	93.5	16.3
50°-60°	86.7	15.1
60°-70°	70.3	12.3
70°-80°	47.3	8.2
80°-90°	24.2	4.2
90°-100°	12.5	2.2
100°-110°	6.5	1.1
110°-120°	2.4	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°	140.4	24.5
0°-40°	229.7	40.1
0°-60°	409.9	71.5
0°-90°	551.7	96.2
90°-120°	21.4	3.7
90°-150°	21.7	3.8
90°-180°	22.0	3.8
0°-180°	573.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	182	182	182	182	182	
5°	180	180	181	181	181	17
15°	173	173	174	175	175	49
25°	159	160	161	162	162	73
35°	140	141	143	144	145	88
45°	118	119	121	124	125	91
55°	92	93	97	101	102	82
65°	63	65	71	77	79	62
75°	33	38	46	52	54	35
85°	8	15	23	29	31	9
90°	2	8	16	22	24	1
95°	1	5	12	18	20	1
105°	1	1	6	11	13	1
115°	0	0	1	4	6	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: P397226

CATALOG NUMBER: 2VRVT3-LD5-2-G-UNV-LA59-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	181.5	181.5	181.5	181.5	181.5
2.5°	180.7	181.0	181.7	181.9	181.7
5°	180.2	180.5	181.2	181.3	181.2
7.5°	178.9	179.3	180.0	180.3	180.2
10°	177.2	177.6	178.5	178.8	178.8
12.5°	174.9	175.5	176.5	176.8	176.9
15°	172.7	173.3	174.1	174.7	174.7
17.5°	169.9	170.3	171.4	172.1	172.3
20°	166.5	167.0	168.3	169.2	169.3
22.5°	162.8	163.5	164.8	165.8	165.9
25°	159.0	159.5	161.1	162.1	162.4
27.5°	154.8	155.3	157.0	158.0	158.4
30°	150.2	150.9	152.6	154.0	154.3
32.5°	145.3	146.1	147.8	149.2	149.8
35°	140.2	141.0	143.0	144.4	145.3
37.5°	134.8	135.7	137.6	139.6	140.5
40°	129.6	130.3	132.3	134.3	135.1
42.5°	123.6	124.7	126.8	129.2	130.3
45°	117.7	118.6	121.0	123.5	124.7
47.5°	111.9	112.8	115.2	117.9	119.1
50°	105.3	106.1	109.2	112.4	113.8
52.5°	98.6	99.6	102.9	106.7	108.1
55°	92.1	93.1	96.7	100.8	102.3
57.5°	84.5	86.5	90.3	94.8	96.9
60°	77.9	79.4	83.8	88.8	90.7
62.5°	70.4	72.4	77.4	82.8	84.8
65°	63.2	65.4	71.1	76.9	79.0
67.5°	55.7	58.1	64.9	70.7	72.5
70°	47.8	51.3	58.5	64.1	66.3
72.5°	40.7	44.4	51.9	57.8	60.5
75°	33.3	37.7	45.6	51.6	53.8
77.5°	26.0	31.2	39.7	45.4	47.9
80°	19.7	25.1	33.5	39.4	41.6
82.5°	13.0	19.5	27.8	33.9	36.2
85°	7.9	14.6	22.8	29.0	31.1
87.5°	3.9	10.6	18.9	24.9	27.3
90°	2.3	8.1	16.0	21.9	24.0
92.5°	1.8	6.2	14.0	19.8	22.0
95°	1.4	4.7	12.0	17.9	20.1
97.5°	1.1	3.4	10.4	16.1	18.2
100°	1.0	2.4	8.8	14.3	16.4
102.5°	0.8	1.6	7.3	12.4	14.4
105°	0.7	1.0	5.9	10.8	12.6
107.5°	0.6	0.6	4.5	9.0	10.8
110°	0.4	0.4	3.2	7.3	9.2



TEST NUMBER: P397226

CATALOG NUMBER: 2VRVT3-LD5-2-G-UNV-LA59-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.4	0.4	2.3	5.9	7.3
115°	0.3	0.3	1.4	4.5	5.8
117.5°	0.3	0.3	0.7	3.2	4.4
120°	0.1	0.1	0.3	2.1	3.1
122.5°	0.1	0.1	0.1	1.1	2.0
125°	0.1	0.0	0.0	0.4	1.0
127.5°	0.0	0.0	0.0	0.0	0.3
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)