

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: P397381

Luminaire Tested: **VRVT4LED-LD5-15-PC-UNV-LR63-CD2-WL-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P397381
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-367-7)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: VRVT4LED-LD5-15-PC-UNV-LR63-CD2-WL-U
Description:
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

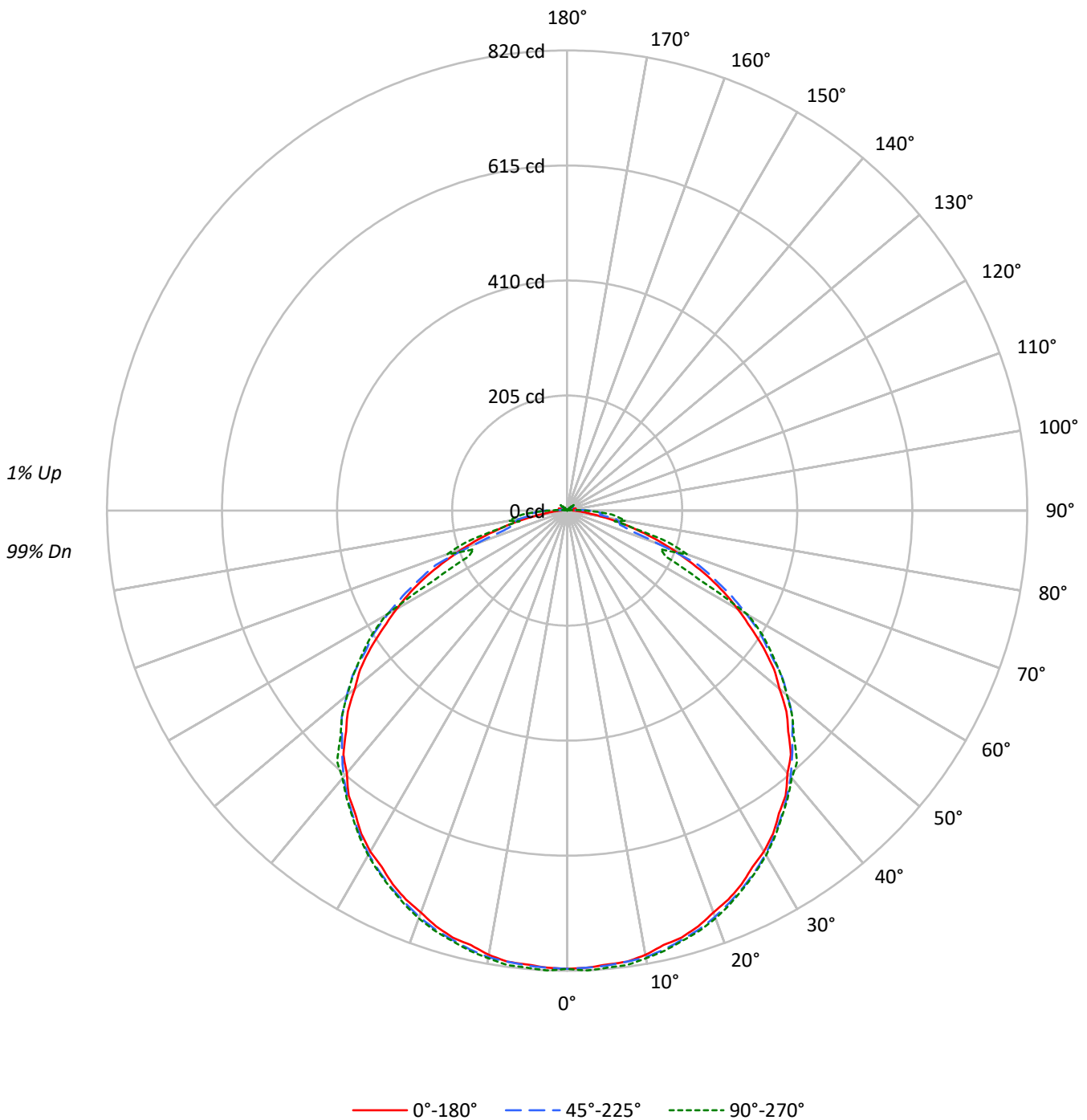
Lumens per Lamp: N/A
Luminaire Lumens: 2384.0 lumens
Efficiency: N/A
Efficacy: 8.2 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 1.04' x L: 4.12' x H: 0.25')
CIE Type: Direct

Input Watts (W): 291.2
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: P397381

CATALOG NUMBER: VRVT4LED-LD5-15-PC-UNV-LR63-CD2-WL-U

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	119	119	119	119	116	116	116	116	110	110	110	105	105	105	101	101	101	99
1	108	104	99	96	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	99	91	84	78	96	89	82	77	85	79	75	81	77	73	78	74	71	69
3	90	80	71	65	87	78	70	64	75	68	63	72	66	62	69	64	60	58
4	82	71	62	55	80	69	61	55	66	59	54	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	55	50	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	50	44	40	38
7	65	51	43	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	40	32	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2046	2046	2046
5°	2031	2010	2014
10°	2023	1981	1977
15°	2010	1943	1934
20°	1988	1906	1895
25°	1976	1864	1847
30°	1960	1822	1802
35°	1932	1771	1746
40°	1901	1720	1694
45°	1862	1657	1632
50°	1796	1594	1550
55°	1719	1472	1449
60°	1592	1349	1321
65°	1445	1179	758
70°	1234	796	1004
75°	969	526	646
80°	672	579	643
85°	458	531	610



TEST NUMBER: P397381

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.6	3.3
10°-20°	223.8	9.4
20°-30°	341.8	14.3
30°-40°	417.0	17.5
40°-50°	438.3	18.4
50°-60°	393.1	16.5
60°-70°	263.4	11.0
70°-80°	135.5	5.7
80°-90°	58.7	2.5
90°-100°	14.3	0.6
100°-110°	6.1	0.3
110°-120°	4.3	0.2
120°-130°	5.2	0.2
130°-140°	3.7	0.2
140°-150°	0.7	0.0
150°-160°	0.2	0.0
160°-170°	0.2	0.0
170°-180°	0.1	0.0
0°-30°	643.2	27.0
0°-40°	1060.1	44.5
0°-60°	1891.5	79.3
0°-90°	2349.1	98.5
90°-120°	24.8	1.0
90°-150°	34.5	1.4
90°-180°	35.0	1.5
0°-180°	2384.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	817	817	817	817	817	
5°	812	814	814	817	818	77
15°	788	794	792	795	794	222
25°	735	741	741	744	743	339
35°	658	667	665	668	667	413
45°	557	569	567	575	571	431
55°	428	436	439	445	446	381
65°	276	283	290	204	194	272
75°	123	127	97	129	127	133
85°	27	22	63	86	79	29
90°	11	21	39	35	33	7
95°	11	11	10	9	8	10
105°	14	8	4	4	3	14
115°	7	7	4	2	2	8
125°	4	3	9	5	2	3
135°	2	1	3	9	5	1
145°	1	1	1	1	1	0
155°	1	1	1	0	0	0
165°	1	1	1	0	0	0
175°	1	1	1	0	0	0
180°	1	1	1	1	1	



TEST NUMBER: P397381

CATALOG NUMBER: VRVT4LED-LD5-15-PC-UNV-LR63-CD2-WL-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	816.6	816.6	816.6	816.6	816.6
2.5°	815.3	816.4	815.2	819.0	820.3
5°	812.0	814.5	814.0	817.2	817.7
7.5°	810.9	811.3	810.9	816.3	816.9
10°	803.8	807.8	808.0	810.2	810.1
12.5°	792.9	798.7	800.8	803.0	803.3
15°	787.7	793.6	791.7	795.0	793.7
17.5°	776.6	783.3	782.4	784.3	784.9
20°	762.1	772.1	770.2	772.1	773.1
22.5°	750.4	757.9	756.0	758.7	758.9
25°	735.0	740.8	741.1	743.7	743.0
27.5°	715.7	724.5	724.9	726.2	726.7
30°	701.4	708.1	707.2	708.3	709.4
32.5°	682.7	689.9	686.7	689.6	688.9
35°	658.5	667.3	665.3	667.5	667.0
37.5°	639.8	644.9	643.2	646.9	645.6
40°	611.0	620.9	619.7	622.2	622.5
42.5°	590.1	595.5	593.4	600.8	606.5
45°	557.4	569.3	567.3	575.0	571.3
47.5°	530.2	537.4	544.9	539.7	544.6
50°	494.1	505.3	512.5	513.7	511.5
52.5°	464.8	471.3	481.3	478.7	480.1
55°	427.7	435.7	439.3	445.1	445.6
57.5°	387.2	399.8	408.8	412.8	412.8
60°	351.2	359.3	368.5	375.7	373.3
62.5°	315.2	322.2	330.4	330.1	263.5
65°	275.5	282.9	289.6	204.5	193.6
67.5°	234.6	241.8	253.6	171.0	180.0
70°	196.5	199.0	172.2	165.6	227.4
72.5°	158.7	163.5	117.6	203.7	190.4
75°	122.7	126.9	97.4	128.8	126.6
77.5°	92.0	95.7	95.4	109.3	86.4
80°	62.6	49.4	88.5	89.0	105.3
82.5°	41.0	36.2	59.0	94.1	92.2
85°	27.0	22.2	63.4	85.6	79.4
87.5°	17.4	20.3	53.8	57.0	54.7
90°	10.7	21.4	38.6	34.6	33.0
92.5°	8.8	17.6	21.6	19.7	17.0
95°	11.4	11.4	10.2	9.0	7.8
97.5°	14.4	6.7	5.6	5.3	5.1
100°	15.5	6.1	4.5	4.2	3.8
102.5°	15.2	6.9	4.3	3.8	3.7
105°	13.9	7.5	4.2	3.5	3.2
107.5°	12.2	7.5	4.0	3.2	3.0
110°	10.4	7.2	3.7	2.9	2.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	8.8	6.7	3.5	2.7	2.6
115°	7.4	6.7	3.5	2.4	2.2
117.5°	6.2	6.4	3.5	2.1	1.9
120°	5.3	5.0	4.8	1.9	1.8
122.5°	4.3	4.2	12.0	2.2	1.8
125°	3.7	3.2	9.0	5.1	2.4
127.5°	3.0	2.4	5.0	16.2	10.4
130°	2.4	1.9	7.5	10.1	15.2
132.5°	2.1	1.6	8.0	4.8	7.7
135°	1.6	1.3	3.4	9.3	5.4
137.5°	1.3	1.1	1.4	11.0	12.2
140°	1.0	1.0	1.0	4.5	8.8
142.5°	0.8	0.8	0.8	1.3	2.9
145°	0.8	0.6	0.6	0.8	1.0
147.5°	0.6	0.6	0.6	0.6	0.6
150°	0.6	0.6	0.6	0.6	0.6
152.5°	0.5	0.6	0.6	0.3	0.5
155°	0.6	0.6	0.6	0.3	0.2
157.5°	0.6	0.6	0.6	0.3	0.3
160°	0.6	0.6	0.6	0.5	0.3
162.5°	0.6	0.6	0.6	0.5	0.3
165°	0.6	0.6	0.8	0.5	0.3
167.5°	0.6	0.8	0.8	0.5	0.3
170°	0.6	0.8	0.8	0.5	0.3
172.5°	0.6	0.8	0.8	0.5	0.3
175°	0.8	0.8	0.8	0.5	0.5
177.5°	0.8	0.8	0.8	0.5	0.5
180°	0.6	0.6	0.6	0.6	0.6

(END OF REPORT)