

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: P397380

Luminaire Tested: **VRVT4LED-LD5-15-PC-UNV-LG52-CD2-WL-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P397380
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-LG52-CD2-WL-U
Description:
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

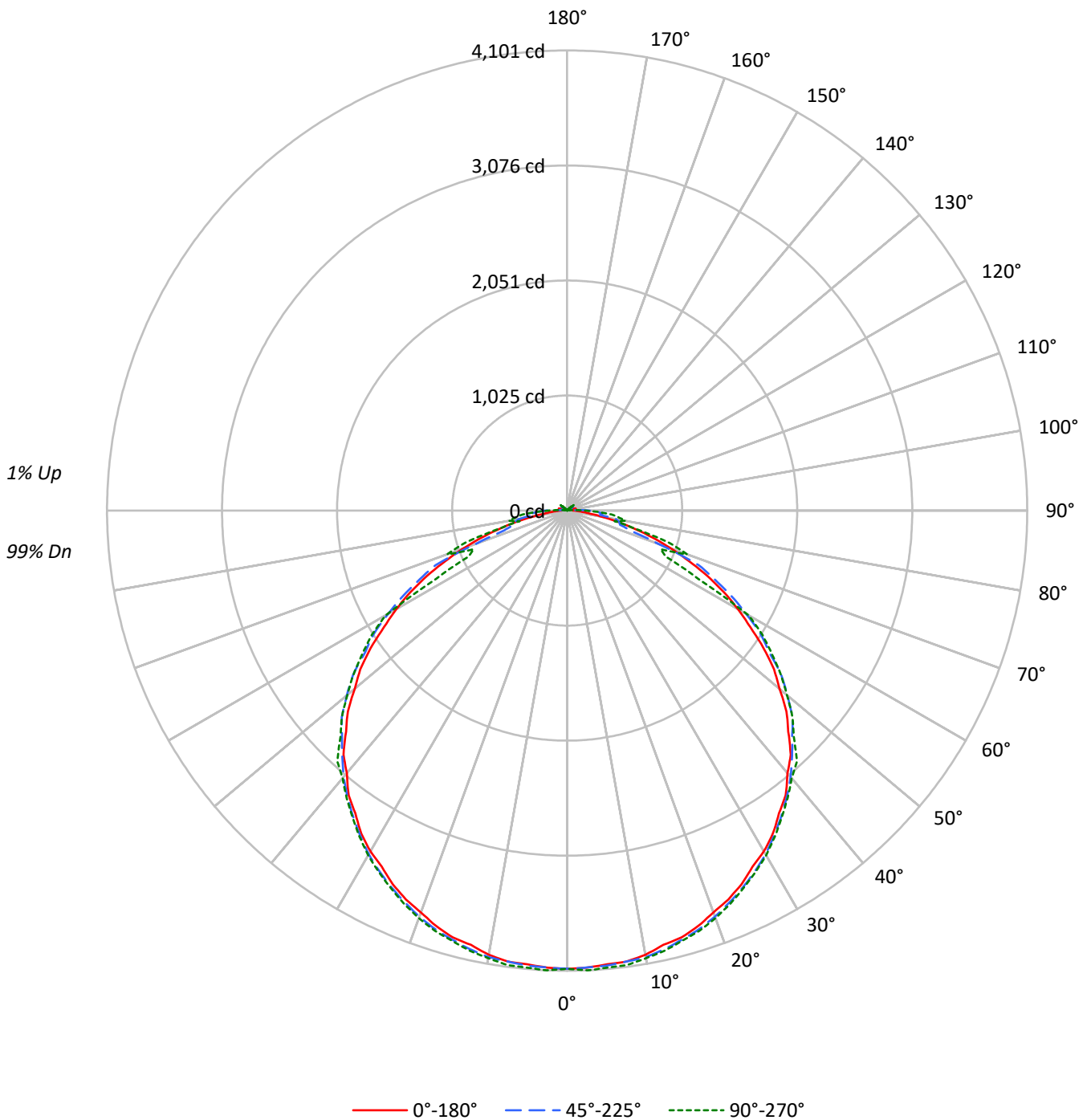
Lumens per Lamp: N/A
Luminaire Lumens: 11920.0 lumens
Efficiency: N/A
Efficacy: 44.5 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 1.04' x L: 4.12' x H: 0.25')
CIE Type: Direct

Input Watts (W): 267.6
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: P397380

CATALOG NUMBER: VRVT4LED-LD5-15-PC-UNV-LG52-CD2-WL-U

Luminous Intensity Polar Plot





TEST NUMBER: P397380

CATALOG NUMBER: VRVT4LED-LD5-15-PC-UNV-LG52-CD2-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	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°	10228	10228	10228
5°	10155	10048	10070
10°	10115	9905	9884
15°	10050	9712	9671
20°	9938	9529	9477
25°	9879	9318	9235
30°	9802	9110	9012
35°	9660	8854	8732
40°	9507	8598	8473
45°	9310	8288	8162
50°	8979	7967	7750
55°	8595	7360	7246
60°	7962	6746	6605
65°	7226	5895	3788
70°	6168	3980	5018
75°	4843	2630	3231
80°	3358	2894	3216
85°	2296	2655	3047



TEST NUMBER: P397380

CATALOG NUMBER: VRVT4LED-LD5-15-PC-UNV-LG52-CD2-WL-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	388.1	3.3
10°-20°	1118.8	9.4
20°-30°	1708.9	14.3
30°-40°	2084.8	17.5
40°-50°	2191.6	18.4
50°-60°	1965.4	16.5
60°-70°	1316.8	11.0
70°-80°	677.5	5.7
80°-90°	293.2	2.5
90°-100°	71.6	0.6
100°-110°	30.7	0.3
110°-120°	21.7	0.2
120°-130°	26.1	0.2
130°-140°	18.7	0.2
140°-150°	3.5	0.0
150°-160°	1.2	0.0
160°-170°	0.8	0.0
170°-180°	0.3	0.0
0°-30°	3215.8	27.0
0°-40°	5300.6	44.5
0°-60°	9457.6	79.3
0°-90°	11745.2	98.5
90°-120°	124.1	1.0
90°-150°	172.4	1.4
90°-180°	175.0	1.5
0°-180°	11920.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4083	4083	4083	4083	4083	
5°	4060	4073	4070	4086	4089	387
15°	3938	3968	3958	3975	3969	1110
25°	3675	3704	3706	3718	3715	1693
35°	3293	3337	3326	3338	3335	2066
45°	2787	2846	2837	2875	2857	2153
55°	2138	2178	2197	2226	2228	1903
65°	1378	1414	1448	1022	968	1359
75°	614	634	487	644	633	663
85°	135	111	317	428	397	147
90°	54	107	193	173	165	33
95°	57	57	51	45	39	52
105°	70	38	21	18	16	72
115°	37	34	18	12	11	38
125°	18	16	45	26	12	17
135°	8	6	17	46	27	7
145°	4	3	3	4	5	2
155°	3	3	3	2	1	1
165°	3	3	4	2	2	1
175°	4	4	4	2	2	0
180°	3	3	3	3	3	



TEST NUMBER: P397380

CATALOG NUMBER: VRVT4LED-LD5-15-PC-UNV-LG52-CD2-WL-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4083.0	4083.0	4083.0	4083.0	4083.0
2.5°	4076.6	4082.2	4075.8	4095.0	4101.4
5°	4059.8	4072.6	4070.2	4086.2	4088.6
7.5°	4054.3	4056.7	4054.3	4081.4	4084.6
10°	4019.1	4039.1	4039.9	4051.1	4050.3
12.5°	3964.7	3993.5	4003.9	4015.1	4016.7
15°	3938.3	3967.9	3958.3	3975.1	3968.7
17.5°	3883.1	3916.7	3911.9	3921.5	3924.7
20°	3810.3	3860.7	3851.1	3860.7	3865.5
22.5°	3751.9	3789.5	3779.9	3793.5	3794.3
25°	3675.1	3703.9	3705.5	3718.3	3715.1
27.5°	3578.3	3622.3	3624.7	3631.1	3633.5
30°	3507.1	3540.7	3535.9	3541.5	3547.1
32.5°	3413.5	3449.5	3433.5	3447.9	3444.7
35°	3292.7	3336.7	3326.3	3337.5	3335.1
37.5°	3199.1	3224.7	3215.9	3234.3	3227.9
40°	3055.1	3104.7	3098.3	3111.1	3112.7
42.5°	2950.3	2977.5	2967.1	3003.9	3032.7
45°	2787.1	2846.3	2836.7	2875.1	2856.7
47.5°	2651.1	2687.1	2724.7	2698.3	2723.1
50°	2470.3	2526.3	2562.3	2568.7	2557.5
52.5°	2323.9	2356.7	2406.3	2393.5	2400.7
55°	2138.3	2178.3	2196.7	2225.5	2227.9
57.5°	1935.9	1999.1	2043.9	2063.9	2063.9
60°	1755.9	1796.7	1842.3	1878.3	1866.3
62.5°	1575.9	1611.1	1651.9	1650.3	1317.6
65°	1377.5	1414.3	1447.9	1022.4	968.0
67.5°	1172.8	1208.8	1268.0	855.2	900.0
70°	982.4	995.2	860.8	828.0	1136.8
72.5°	793.6	817.6	588.0	1018.4	952.0
75°	613.6	634.4	487.2	644.0	632.8
77.5°	460.0	478.4	476.8	546.4	432.0
80°	312.8	247.2	442.4	444.8	526.4
82.5°	204.8	180.8	295.2	470.4	460.8
85°	135.2	111.2	316.8	428.0	396.8
87.5°	87.2	101.6	268.8	284.8	273.6
90°	53.6	107.2	192.8	172.8	164.8
92.5°	44.0	88.0	108.0	98.4	84.8
95°	56.8	56.8	51.2	44.8	39.2
97.5°	72.0	33.6	28.0	26.4	25.6
100°	77.6	30.4	22.4	20.8	19.2
102.5°	76.0	34.4	21.6	19.2	18.4
105°	69.6	37.6	20.8	17.6	16.0
107.5°	60.8	37.6	20.0	16.0	15.2
110°	52.0	36.0	18.4	14.4	13.6



TEST NUMBER: P397380

CATALOG NUMBER: VRVT4LED-LD5-15-PC-UNV-LG52-CD2-WL-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	44.0	33.6	17.6	13.6	12.8
115°	36.8	33.6	17.6	12.0	11.2
117.5°	31.2	32.0	17.6	10.4	9.6
120°	26.4	24.8	24.0	9.6	8.8
122.5°	21.6	20.8	60.0	11.2	8.8
125°	18.4	16.0	44.8	25.6	12.0
127.5°	15.2	12.0	24.8	80.8	52.0
130°	12.0	9.6	37.6	50.4	76.0
132.5°	10.4	8.0	40.0	24.0	38.4
135°	8.0	6.4	16.8	46.4	27.2
137.5°	6.4	5.6	7.2	55.2	60.8
140°	4.8	4.8	4.8	22.4	44.0
142.5°	4.0	4.0	4.0	6.4	14.4
145°	4.0	3.2	3.2	4.0	4.8
147.5°	3.2	3.2	3.2	3.2	3.2
150°	3.2	3.2	3.2	3.2	3.2
152.5°	2.4	3.2	3.2	1.6	2.4
155°	3.2	3.2	3.2	1.6	0.8
157.5°	3.2	3.2	3.2	1.6	1.6
160°	3.2	3.2	3.2	2.4	1.6
162.5°	3.2	3.2	3.2	2.4	1.6
165°	3.2	3.2	4.0	2.4	1.6
167.5°	3.2	4.0	4.0	2.4	1.6
170°	3.2	4.0	4.0	2.4	1.6
172.5°	3.2	4.0	4.0	2.4	1.6
175°	4.0	4.0	4.0	2.4	2.4
177.5°	4.0	4.0	4.0	2.4	2.4
180°	3.2	3.2	3.2	3.2	3.2

(END OF REPORT)