

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: P397377

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

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P397377
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-367-6)
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-DRF-UNV-LG52-CD2-WL-U
Description:
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

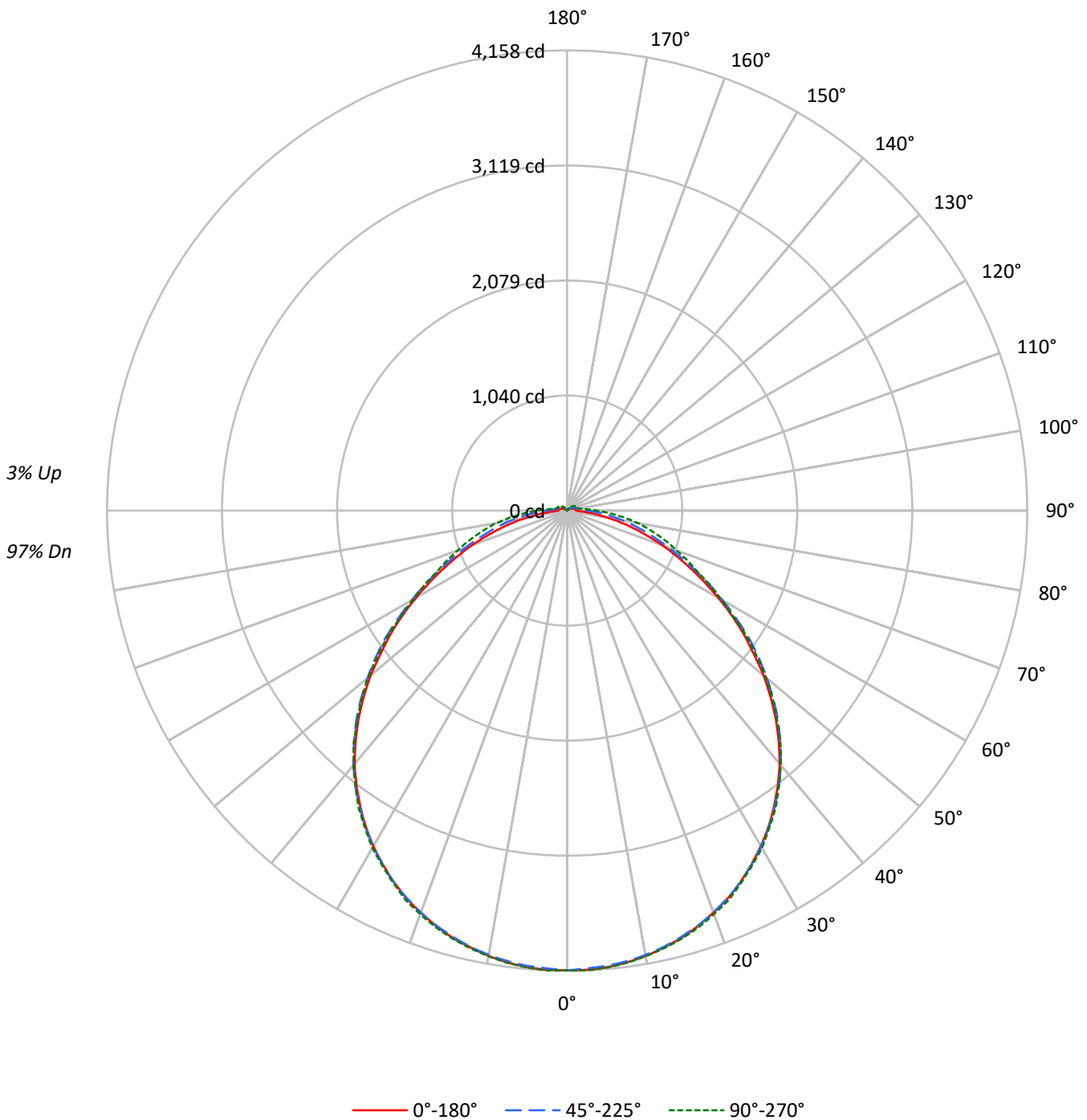
Lumens per Lamp: N/A
Luminaire Lumens: 11867.2 lumens
Efficiency: N/A
Efficacy: 44.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 1.04' x L: 4.12' x H: 0.25')
CIE Type: Direct

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: P397377

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

Luminous Intensity Polar Plot





TEST NUMBER: P397377

CATALOG NUMBER: VRVT4LED-LD5-15-DRF-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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	97
1	108	103	99	95	105	100	96	93	96	92	89	91	88	86	87	85	83	81
2	98	90	83	77	95	88	81	76	84	78	74	80	76	72	76	73	70	67
3	90	79	71	64	87	77	70	64	74	67	62	71	65	61	68	63	59	57
4	82	70	61	55	80	69	60	54	66	59	53	63	57	52	61	55	51	49
5	76	63	54	47	73	61	53	47	59	52	46	57	50	45	55	49	44	42
6	70	57	48	41	68	55	47	41	53	46	40	51	45	40	50	44	39	37
7	65	51	43	36	63	50	42	36	49	41	36	47	40	35	45	39	35	33
8	60	47	38	33	59	46	38	32	44	37	32	43	36	32	42	36	31	29
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	38	33	28	26
10	53	40	32	27	51	39	32	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10407	10407	10407
5°	10360	10195	10209
10°	10285	9996	9981
15°	10202	9782	9757
20°	10083	9563	9515
25°	9957	9321	9234
30°	9784	9034	8943
35°	9564	8702	8594
40°	9296	8339	8171
45°	8907	7882	7666
50°	8427	7329	7111
55°	7833	6703	6435
60°	7157	5947	5699
65°	6421	5195	5059
70°	5741	4513	4640
75°	4951	3899	4305
80°	4002	3344	3954
85°	2961	2756	3360



TEST NUMBER: P397377

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	393.4	3.3
10°-20°	1128.1	9.5
20°-30°	1709.3	14.4
30°-40°	2046.6	17.2
40°-50°	2071.5	17.5
50°-60°	1769.6	14.9
60°-70°	1267.4	10.7
70°-80°	778.9	6.6
80°-90°	358.2	3.0
90°-100°	135.9	1.1
100°-110°	84.6	0.7
110°-120°	61.9	0.5
120°-130°	37.9	0.3
130°-140°	17.5	0.1
140°-150°	4.7	0.0
150°-160°	0.9	0.0
160°-170°	0.6	0.0
170°-180°	0.2	0.0
0°-30°	3230.8	27.2
0°-40°	5277.4	44.5
0°-60°	9118.5	76.8
0°-90°	11523.0	97.1
90°-120°	282.4	2.4
90°-150°	342.6	2.9
90°-180°	344.0	2.9
0°-180°	11867.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4154	4154	4154	4154	4154	
5°	4142	4142	4130	4142	4145	394
15°	3998	4002	3986	4002	4004	1127
25°	3704	3708	3706	3718	3714	1706
35°	3260	3279	3269	3282	3282	2038
45°	2666	2686	2698	2699	2683	2053
55°	1949	1974	2001	1981	1978	1739
65°	1224	1253	1276	1290	1293	1219
75°	627	654	722	819	843	668
85°	174	215	329	419	438	186
90°	83	106	192	254	266	49
95°	77	81	122	150	154	62
105°	66	62	83	93	94	69
115°	41	40	66	82	86	41
125°	21	17	42	63	70	19
135°	10	8	18	37	44	8
145°	5	3	2	11	16	3
155°	3	3	2	1	0	1
165°	3	3	2	1	1	1
175°	4	3	2	2	2	0
180°	2	2	2	2	2	



TEST NUMBER: P397377

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4154.5	4154.5	4154.5	4154.5	4154.5
2.5°	4153.7	4154.5	4140.9	4153.7	4158.5
5°	4141.7	4142.5	4129.7	4142.5	4144.9
7.5°	4119.3	4120.1	4107.3	4120.9	4122.5
10°	4086.5	4089.7	4076.9	4088.9	4089.7
12.5°	4043.3	4048.9	4037.7	4050.5	4049.7
15°	3997.7	4001.7	3986.5	4001.7	4004.1
17.5°	3936.1	3938.5	3931.3	3946.5	3948.1
20°	3865.7	3868.9	3864.9	3880.1	3880.9
22.5°	3792.1	3793.7	3788.9	3803.3	3810.5
25°	3704.1	3708.1	3706.5	3717.7	3714.5
27.5°	3605.7	3615.3	3608.1	3622.5	3616.9
30°	3500.9	3512.9	3506.5	3519.3	3520.1
32.5°	3386.5	3396.1	3393.7	3402.5	3399.3
35°	3260.1	3279.3	3268.9	3281.7	3282.5
37.5°	3127.3	3144.9	3143.3	3150.5	3142.5
40°	2987.3	2999.3	3004.9	3004.1	3001.7
42.5°	2830.5	2853.7	2852.1	2852.9	2853.7
45°	2666.5	2686.5	2697.7	2699.3	2683.3
47.5°	2492.9	2519.3	2530.5	2530.5	2520.9
50°	2318.5	2343.3	2356.9	2352.1	2346.5
52.5°	2121.7	2167.3	2180.9	2172.1	2159.3
55°	1948.8	1973.6	2000.8	1980.8	1978.4
57.5°	1763.2	1793.6	1810.4	1802.4	1779.2
60°	1578.4	1606.4	1624.0	1620.0	1610.4
62.5°	1395.2	1428.8	1448.0	1443.2	1450.4
65°	1224.0	1252.8	1276.0	1290.4	1292.8
67.5°	1062.4	1092.0	1119.2	1155.2	1173.6
70°	914.4	936.8	976.0	1036.0	1051.2
72.5°	764.0	792.0	840.0	922.4	950.4
75°	627.2	654.4	722.4	819.2	843.2
77.5°	499.2	524.8	612.0	716.8	744.0
80°	372.8	410.4	511.2	616.0	647.2
82.5°	268.0	305.6	414.4	516.8	544.0
85°	174.4	215.2	328.8	419.2	437.6
87.5°	109.6	146.4	253.6	330.4	348.8
90°	83.2	106.4	192.0	253.6	266.4
92.5°	78.4	88.0	148.8	194.4	202.4
95°	76.8	80.8	122.4	149.6	153.6
97.5°	76.0	75.2	107.2	123.2	125.6
100°	73.6	70.4	96.0	107.2	107.2
102.5°	71.2	65.6	88.0	98.4	98.4
105°	65.6	61.6	83.2	92.8	93.6
107.5°	60.0	57.6	78.4	89.6	90.4
110°	53.6	52.0	74.4	86.4	88.8



TEST NUMBER: P397377

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

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	47.2	45.6	70.4	84.0	87.2
115°	40.8	40.0	65.6	81.6	85.6
117.5°	35.2	33.6	60.8	77.6	83.2
120°	29.6	27.2	55.2	73.6	79.2
122.5°	24.8	21.6	48.8	68.8	75.2
125°	20.8	16.8	42.4	63.2	69.6
127.5°	17.6	13.6	36.0	56.8	64.0
130°	14.4	11.2	29.6	50.4	57.6
132.5°	12.0	9.6	24.0	43.2	50.4
135°	9.6	8.0	17.6	36.8	44.0
137.5°	8.0	6.4	12.0	29.6	36.8
140°	6.4	5.6	7.2	23.2	29.6
142.5°	5.6	4.0	3.2	17.6	22.4
145°	4.8	3.2	1.6	11.2	16.0
147.5°	4.0	3.2	1.6	6.4	10.4
150°	3.2	2.4	1.6	2.4	5.6
152.5°	3.2	2.4	1.6	0.0	0.8
155°	3.2	3.2	1.6	0.8	0.0
157.5°	3.2	3.2	1.6	0.8	0.0
160°	3.2	3.2	2.4	0.8	0.0
162.5°	3.2	3.2	2.4	0.8	0.8
165°	3.2	3.2	2.4	0.8	0.8
167.5°	3.2	3.2	2.4	0.8	0.8
170°	4.0	3.2	2.4	0.8	0.8
172.5°	4.0	3.2	2.4	1.6	0.8
175°	4.0	3.2	2.4	1.6	1.6
177.5°	4.0	4.0	2.4	1.6	1.6
180°	2.4	2.4	2.4	2.4	2.4

(END OF REPORT)