

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: P397432

Luminaire Tested: **VRVT4S-LD5-15-DR-LR63-CD2-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P397432
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1801-511-1)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: VRVT4S-LD5-15-DR-LR63-CD2-U
Description:
Light Source: -
Ballast/Driver: -

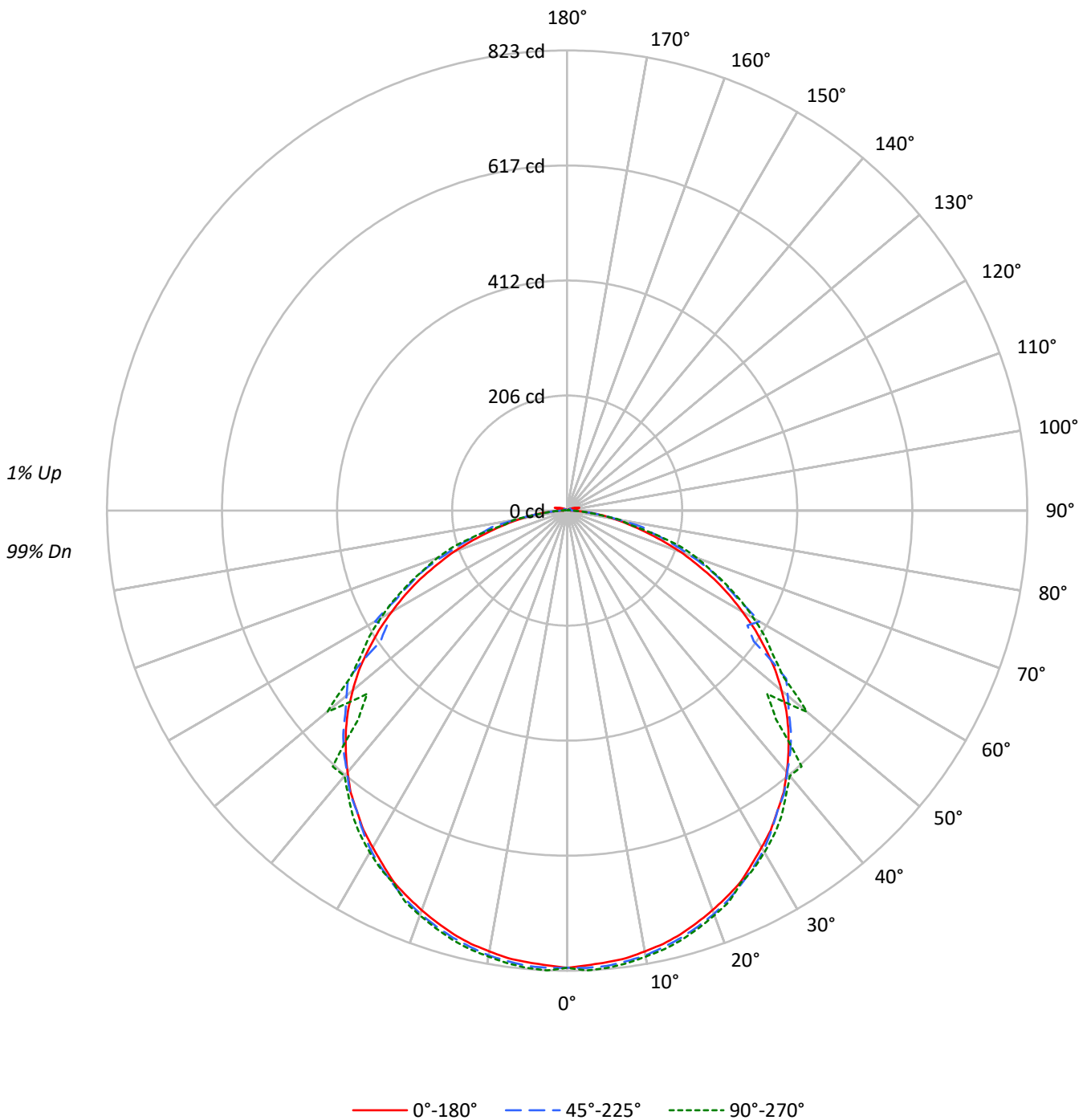
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2415.8 lumens
Efficiency: N/A
Efficacy: 9.4 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.29 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 1.08' x L: 2.08' x H: 0.25')
CIE Type: Direct

Input Watts (W): 257.8
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: P397432
CATALOG NUMBER: VRVT4S-LD5-15-DR-LR63-CD2-U

Luminous Intensity Polar Plot





TEST NUMBER: P397432

CATALOG NUMBER: VRVT4S-LD5-15-DR-LR63-CD2-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	111	111	111	106	106	106	101	101	101	99
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	99	90	83	78	96	88	82	77	84	79	75	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	64	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	63	57	52	61	56	51	49
5	75	62	53	47	73	61	53	46	59	51	46	57	50	45	55	49	45	42
6	70	56	47	41	68	55	47	40	53	46	40	51	45	39	50	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	46	37	32	44	37	31	43	36	31	42	35	31	29
9	56	42	34	29	54	42	34	29	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	31	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3902	3902	3902
5°	3845	3832	3855
10°	3798	3749	3771
15°	3755	3662	3697
20°	3699	3575	3608
25°	3657	3478	3493
30°	3584	3383	3432
35°	3525	3256	3350
40°	3458	3155	3233
45°	3371	3062	2894
50°	3252	2951	3258
55°	3081	2504	2809
60°	2861	2649	2625
65°	2600	2282	2375
70°	2261	1937	2103
75°	1798	1532	1572
80°	1383	1048	1141
85°	873	500	507



TEST NUMBER: P397432

CATALOG NUMBER: VRVT4S-LD5-15-DR-LR63-CD2-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.7	3.2
10°-20°	223.1	9.2
20°-30°	339.5	14.1
30°-40°	413.6	17.1
40°-50°	432.0	17.9
50°-60°	395.2	16.4
60°-70°	301.8	12.5
70°-80°	164.6	6.8
80°-90°	44.5	1.8
90°-100°	6.8	0.3
100°-110°	8.3	0.3
110°-120°	5.0	0.2
120°-130°	2.4	0.1
130°-140°	0.8	0.0
140°-150°	0.3	0.0
150°-160°	0.1	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	640.3	26.5
0°-40°	1053.9	43.6
0°-60°	1881.1	77.9
0°-90°	2391.9	99.0
90°-120°	20.0	0.8
90°-150°	23.5	1.0
90°-180°	24.0	1.0
0°-180°	2415.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	818	818	818	818	818	
5°	811	814	818	820	821	77
15°	785	788	790	793	795	221
25°	733	736	737	739	735	337
35°	656	660	656	664	668	411
45°	560	562	566	595	528	431
55°	434	436	408	452	449	388
65°	290	298	310	311	314	286
75°	141	152	160	160	159	153
85°	38	38	35	34	34	41
90°	6	11	10	10	10	5
95°	6	6	6	5	5	7
105°	20	26	3	4	4	20
115°	10	5	6	2	3	10
125°	4	4	2	1	1	4
135°	2	2	1	0	0	2
145°	1	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: P397432

CATALOG NUMBER: VRVT4S-LD5-15-DR-LR63-CD2-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	817.7	817.7	817.7	817.7	817.7
2.5°	813.9	816.0	818.5	822.1	823.2
5°	811.1	814.4	817.5	820.3	821.1
7.5°	807.5	811.6	812.9	816.5	816.5
10°	800.5	805.2	807.7	810.0	810.0
12.5°	793.8	797.2	799.5	802.3	803.6
15°	784.6	787.7	790.5	793.3	794.6
17.5°	772.8	777.6	779.4	781.7	782.8
20°	760.4	765.0	767.6	769.7	770.2
22.5°	747.3	750.9	753.5	754.2	757.1
25°	733.4	735.7	737.0	739.1	734.9
27.5°	713.9	718.2	720.0	718.2	722.4
30°	695.6	700.0	702.0	702.5	705.9
32.5°	677.6	680.7	679.7	683.5	688.4
35°	656.0	659.6	656.0	664.5	668.1
37.5°	635.7	637.5	637.7	646.2	642.6
40°	611.0	613.3	612.0	617.4	619.5
42.5°	586.0	588.1	590.4	594.5	620.8
45°	559.6	562.1	566.3	595.3	527.9
47.5°	532.0	532.6	538.0	493.5	485.0
50°	500.7	500.4	515.1	468.5	559.6
52.5°	469.3	469.1	493.5	515.6	486.8
55°	433.8	436.4	407.6	452.1	449.0
57.5°	399.4	401.7	382.1	413.0	419.7
60°	362.1	371.1	396.8	384.7	385.0
62.5°	326.6	334.6	345.9	349.7	351.3
65°	289.6	298.3	309.6	310.6	314.5
67.5°	250.2	262.8	276.4	274.6	278.2
70°	215.5	200.1	233.5	235.0	246.4
72.5°	176.4	194.9	197.5	164.6	211.9
75°	141.2	152.0	160.0	159.7	158.7
77.5°	111.9	119.1	138.4	124.5	112.6
80°	84.6	86.7	91.8	91.3	95.9
82.5°	63.8	60.7	62.5	61.7	54.5
85°	37.8	38.1	35.0	34.0	33.7
87.5°	15.7	17.5	17.0	16.2	17.5
90°	6.4	10.8	10.3	10.0	9.8
92.5°	7.2	7.7	7.2	6.2	5.4
95°	6.2	5.7	5.9	4.9	4.9
97.5°	8.5	4.6	4.6	4.1	3.9
100°	17.0	4.1	4.4	3.6	3.6
102.5°	22.6	4.4	3.9	3.6	3.9
105°	19.8	26.2	3.3	3.6	3.6
107.5°	16.7	15.4	3.1	3.3	3.6
110°	14.1	9.5	2.6	3.1	3.3



TEST NUMBER: P397432

CATALOG NUMBER: VRVT4S-LD5-15-DR-LR63-CD2-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	11.6	6.7	2.3	2.6	3.1
115°	9.8	4.9	6.4	2.3	2.6
117.5°	8.2	5.1	6.9	2.1	2.3
120°	6.7	10.5	3.6	1.8	1.8
122.5°	5.4	4.9	2.6	1.3	1.5
125°	4.4	3.6	1.8	1.0	1.3
127.5°	3.6	2.8	1.3	0.8	1.0
130°	3.1	2.6	0.8	0.8	0.8
132.5°	2.6	2.1	0.8	0.5	0.8
135°	2.1	1.5	0.8	0.5	0.5
137.5°	1.5	1.3	0.5	0.5	0.5
140°	1.3	0.8	0.3	0.3	0.3
142.5°	1.0	0.8	0.3	0.3	0.3
145°	0.8	0.5	0.3	0.3	0.3
147.5°	0.5	0.3	0.3	0.3	0.3
150°	0.3	0.3	0.3	0.3	0.3
152.5°	0.3	0.3	0.3	0.3	0.3
155°	0.3	0.3	0.3	0.3	0.3
157.5°	0.3	0.3	0.3	0.3	0.3
160°	0.3	0.3	0.3	0.3	0.3
162.5°	0.5	0.5	0.5	0.5	0.3
165°	0.5	0.5	0.5	0.5	0.3
167.5°	0.5	0.5	0.5	0.5	0.3
170°	0.5	0.5	0.5	0.5	0.3
172.5°	0.5	0.5	0.5	0.5	0.5
175°	0.5	0.5	0.5	0.5	0.5
177.5°	0.5	0.5	0.5	0.5	0.5
180°	0.5	0.5	0.5	0.5	0.5

(END OF REPORT)