

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: P397426

Luminaire Tested: **VRVT4S-LD5-12-PC-LR63-CD2-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P397426
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1801-511-6)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: VRVT4S-LD5-12-PC-LR63-CD2-U
Description:
Light Source: -
Ballast/Driver: -

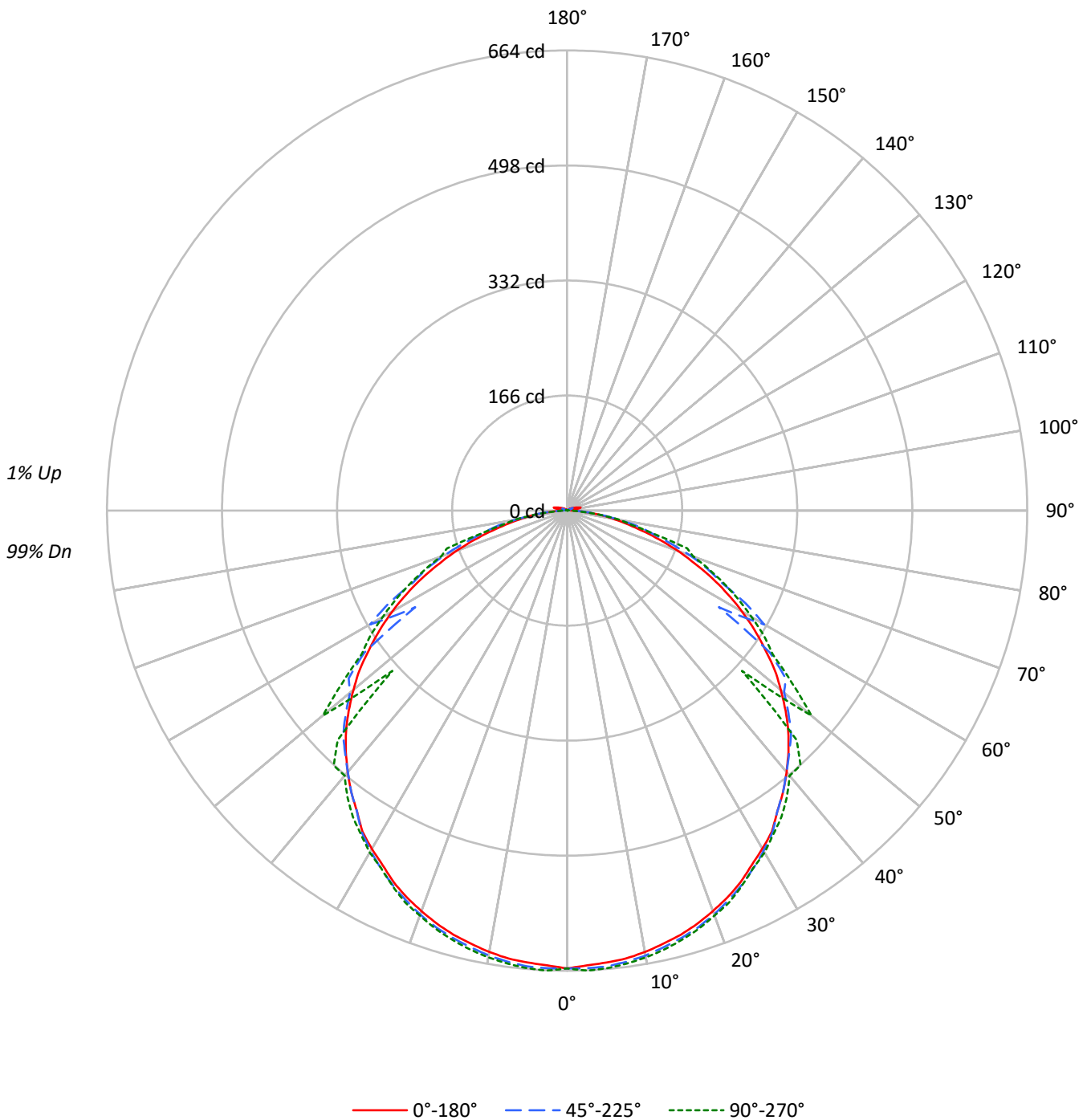
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1943.9 lumens
Efficiency: N/A
Efficacy: 8.9 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.28 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 1.08' x L: 2.08' x H: 0.25')
CIE Type: Direct

Input Watts (W): 217.3
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

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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	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	85	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	52	46		57	50	45		55	49	45	42
6	70	56	47	41	68	55	47	40	53	46	40		51	45	40		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	32		43	36	31		42	36	31	29
9	56	43	34	29	55	42	34	29	41	33	28		40	33	28		38	32	28	26
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3152	3152	3152
5°	3103	3095	3112
10°	3068	3026	3047
15°	3032	2957	2982
20°	2992	2887	2913
25°	2952	2812	2838
30°	2903	2733	2770
35°	2843	2625	2704
40°	2788	2538	2605
45°	2719	2470	2565
50°	2615	2341	2679
55°	2474	2191	2266
60°	2303	2191	2097
65°	2078	1805	1889
70°	1785	1560	1652
75°	1420	1199	1267
80°	1086	854	902
85°	690	437	382



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.7	3.2
10°-20°	180.1	9.3
20°-30°	274.3	14.1
30°-40°	333.8	17.2
40°-50°	347.7	17.9
50°-60°	317.8	16.3
60°-70°	242.0	12.4
70°-80°	131.3	6.8
80°-90°	36.2	1.9
90°-100°	4.6	0.2
100°-110°	6.3	0.3
110°-120°	4.2	0.2
120°-130°	1.6	0.1
130°-140°	0.7	0.0
140°-150°	0.2	0.0
150°-160°	0.1	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	517.2	26.6
0°-40°	851.0	43.8
0°-60°	1516.5	78.0
0°-90°	1926.0	99.1
90°-120°	15.1	0.8
90°-150°	17.7	0.9
90°-180°	18.0	0.9
0°-180°	1943.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	661	661	661	661	661	
5°	655	657	660	663	663	62
15°	634	636	638	641	641	179
25°	592	595	596	597	597	273
35°	529	533	529	536	539	332
45°	451	452	457	479	468	347
55°	348	350	357	381	362	312
65°	231	238	245	250	250	228
75°	112	124	125	128	128	120
85°	30	32	31	25	25	32
90°	6	9	8	7	7	4
95°	5	4	4	2	2	7
105°	17	22	2	2	2	18
115°	9	6	9	1	1	9
125°	4	3	1	0	0	4
135°	2	1	0	0	0	1
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



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	660.6	660.6	660.6	660.6	660.6
2.5°	656.8	658.9	661.1	663.4	664.3
5°	654.6	657.3	660.2	662.6	662.9
7.5°	651.9	654.6	656.5	658.6	659.3
10°	646.7	650.6	651.9	653.3	654.5
12.5°	640.3	644.0	645.1	648.0	648.6
15°	633.5	636.4	638.3	640.7	641.1
17.5°	625.0	628.0	630.1	631.5	632.4
20°	614.9	617.4	620.0	621.0	621.9
22.5°	604.4	606.0	608.4	610.1	611.7
25°	592.0	595.0	596.0	597.0	597.0
27.5°	576.7	581.1	581.9	580.3	581.6
30°	563.5	566.4	567.0	565.2	569.7
32.5°	549.5	549.6	551.2	550.8	553.7
35°	529.1	532.9	529.0	535.5	539.2
37.5°	511.8	514.9	511.6	521.5	520.8
40°	492.6	495.6	492.3	500.7	499.3
42.5°	472.5	475.1	474.3	478.2	498.5
45°	451.3	452.4	456.9	478.6	467.9
47.5°	427.5	428.4	433.2	425.4	342.2
50°	402.6	403.5	408.6	321.5	460.2
52.5°	377.5	376.2	397.4	432.3	409.2
55°	348.4	349.5	356.7	380.8	362.2
57.5°	320.6	322.9	259.8	335.1	336.9
60°	291.5	295.8	328.2	306.7	307.6
62.5°	261.5	268.7	290.2	278.4	279.3
65°	231.4	238.4	244.9	249.9	250.2
67.5°	199.4	210.1	218.4	216.5	221.8
70°	170.1	165.1	188.0	187.3	193.5
72.5°	139.7	151.8	154.4	134.0	181.6
75°	111.5	123.9	125.3	127.9	127.9
77.5°	86.3	93.6	104.4	99.3	95.7
80°	66.4	68.4	74.8	77.1	75.8
82.5°	49.4	46.5	51.6	53.8	48.7
85°	29.9	32.5	30.6	25.4	25.4
87.5°	12.3	15.6	13.7	12.6	11.2
90°	6.0	8.6	8.0	7.4	7.1
92.5°	6.2	6.0	4.3	3.0	2.3
95°	4.8	3.9	4.1	2.3	2.2
97.5°	9.1	2.8	2.8	2.1	1.7
100°	16.8	2.5	2.6	2.1	1.4
102.5°	20.1	3.6	2.6	2.1	2.1
105°	17.2	22.3	2.2	2.3	2.1
107.5°	14.6	10.1	1.7	2.1	2.3
110°	12.3	7.1	1.4	2.0	2.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	10.4	5.3	1.4	1.4	2.0
115°	8.9	5.6	8.8	1.2	1.2
117.5°	7.5	8.8	3.9	0.9	1.2
120°	6.1	5.1	2.3	1.2	0.8
122.5°	4.8	3.8	1.6	0.4	0.8
125°	4.0	3.0	1.2	0.3	0.4
127.5°	3.2	2.5	0.8	0.3	0.3
130°	2.6	2.3	0.5	0.3	0.3
132.5°	2.2	1.7	1.4	0.3	0.3
135°	1.7	1.3	0.5	0.3	0.3
137.5°	1.3	1.0	0.4	0.3	0.3
140°	1.0	0.8	0.3	0.3	0.1
142.5°	0.8	0.5	0.3	0.3	0.1
145°	0.5	0.3	0.3	0.3	0.1
147.5°	0.4	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°	0.4	0.4	0.4	0.4	0.3
165°	0.4	0.4	0.4	0.4	0.4
167.5°	0.4	0.4	0.4	0.4	0.4
170°	0.4	0.4	0.4	0.4	0.4
172.5°	0.4	0.4	0.4	0.4	0.4
175°	0.4	0.4	0.4	0.4	0.4
177.5°	0.4	0.4	0.4	0.4	0.4
180°	0.4	0.4	0.4	0.4	0.4

(END OF REPORT)