

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: P397375

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

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P397375
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-367-5)
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-DR-UNV-LR63-CD2-WL-U
Description:
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

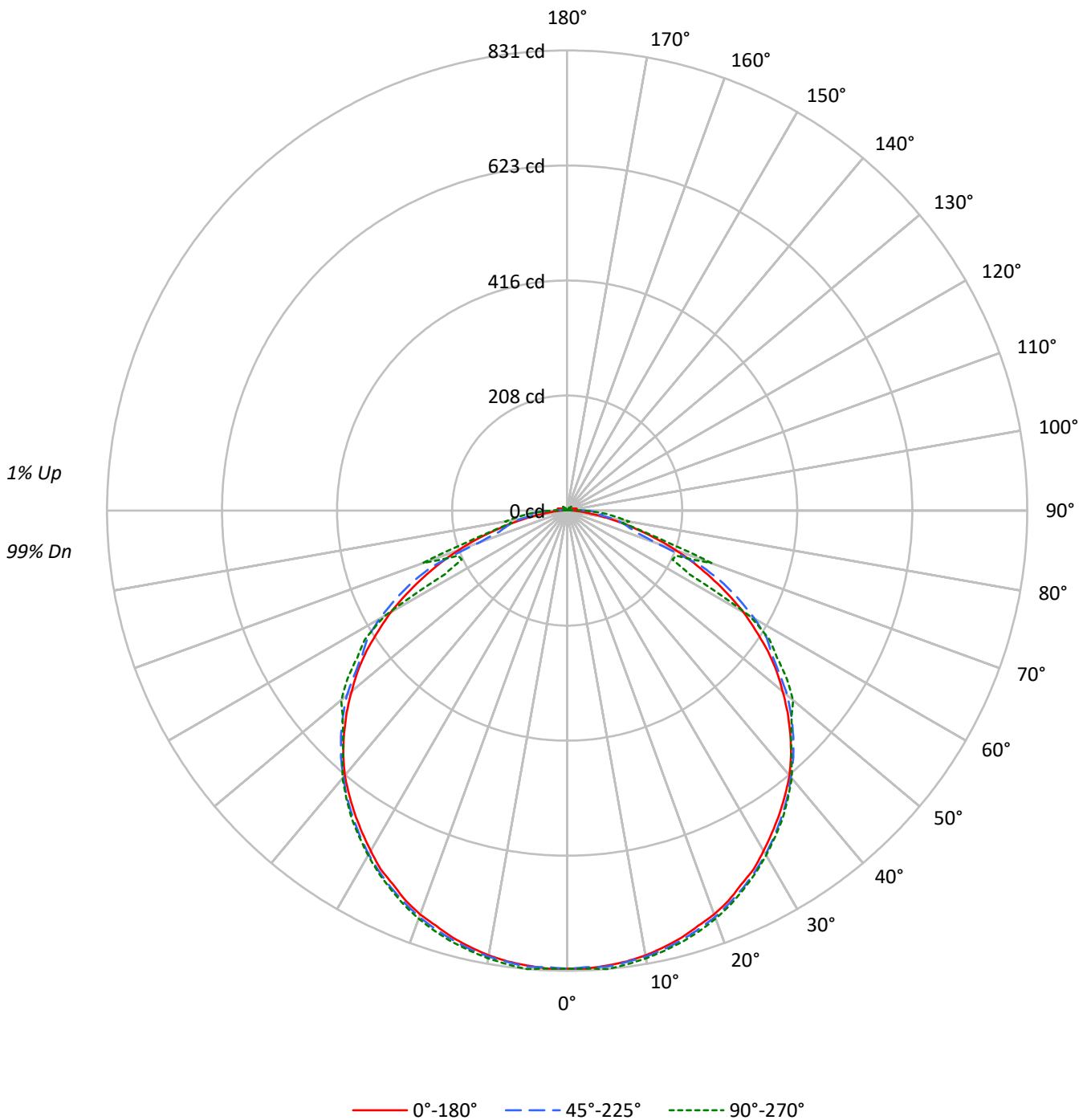
Lumens per Lamp: N/A
Luminaire Lumens: 2436.6 lumens
Efficiency: N/A
Efficacy: 8.4 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.29 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 1.04' x L: 4.12' x H: 0.25')
CIE Type: Direct

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

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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	110	110	110	105	105	105	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	84	78	96	88	82	77	85	79	75	81	77	73	78	74	71	69
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	64	60	58
4	82	70	62	55	80	69	61	54	66	59	53	64	58	53	61	56	52	50
5	76	63	54	47	73	62	53	47	59	52	46	57	51	46	55	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	47	38	32	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	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2072	2072	2072
5°	2063	2041	2047
10°	2053	2005	2004
15°	2038	1969	1964
20°	2024	1932	1923
25°	2001	1891	1875
30°	1983	1847	1826
35°	1961	1797	1776
40°	1943	1744	1717
45°	1903	1687	1633
50°	1846	1614	1614
55°	1779	1510	1505
60°	1669	1431	1344
65°	1505	1269	821
70°	1308	783	1223
75°	1031	619	689
80°	735	541	696
85°	462	547	548



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.7	3.2
10°-20°	226.8	9.3
20°-30°	346.7	14.2
30°-40°	422.8	17.4
40°-50°	444.1	18.2
50°-60°	407.1	16.7
60°-70°	278.2	11.4
70°-80°	145.7	6.0
80°-90°	57.0	2.3
90°-100°	11.8	0.5
100°-110°	6.2	0.3
110°-120°	4.4	0.2
120°-130°	3.2	0.1
130°-140°	2.8	0.1
140°-150°	0.8	0.0
150°-160°	0.2	0.0
160°-170°	0.2	0.0
170°-180°	0.1	0.0
0°-30°	652.2	26.8
0°-40°	1074.9	44.1
0°-60°	1926.1	79.0
0°-90°	2406.9	98.8
90°-120°	22.4	0.9
90°-150°	29.2	1.2
90°-180°	30.0	1.2
0°-180°	2436.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	827	827	827	827	827	
5°	825	827	827	829	831	78
15°	798	803	802	805	806	225
25°	744	751	752	755	754	344
35°	668	676	675	678	678	419
45°	570	578	578	574	572	439
55°	443	451	451	467	463	394
65°	287	300	312	212	210	285
75°	131	142	115	130	135	141
85°	27	23	65	87	71	31
90°	8	20	33	27	28	6
95°	13	8	7	6	6	11
105°	15	7	4	4	3	15
115°	7	6	4	3	3	7
125°	3	3	7	2	2	3
135°	1	1	6	3	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	1	0	0
180°	1	1	1	1	1	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	827.2	827.2	827.2	827.2	827.2
2.5°	827.9	828.7	825.3	826.9	827.7
5°	824.7	827.1	826.9	829.3	831.1
7.5°	821.3	821.8	822.4	825.9	826.6
10°	815.7	819.4	817.8	821.0	821.0
12.5°	807.4	811.5	811.2	814.1	814.1
15°	798.4	802.6	802.3	805.3	805.9
17.5°	786.4	792.3	792.0	795.9	795.9
20°	776.0	780.5	781.0	784.2	784.3
22.5°	762.4	767.4	766.9	770.3	770.6
25°	744.5	751.2	751.9	754.6	754.3
27.5°	729.9	734.4	734.9	737.1	737.6
30°	709.5	716.5	717.0	718.7	718.9
32.5°	689.1	697.3	696.5	699.2	698.7
35°	668.5	676.3	675.1	678.1	678.4
37.5°	646.9	653.8	653.1	655.9	654.9
40°	624.5	629.8	628.5	630.3	630.9
42.5°	598.4	604.7	604.7	604.3	599.4
45°	569.8	578.3	577.5	574.4	571.7
47.5°	540.0	548.8	549.1	545.1	549.6
50°	508.0	519.2	519.1	519.2	532.5
52.5°	477.0	486.7	482.6	502.9	500.3
55°	442.6	451.1	450.6	467.2	462.7
57.5°	404.0	414.2	427.1	430.3	433.3
60°	368.2	377.6	390.7	396.0	379.8
62.5°	327.8	337.8	351.8	333.9	248.3
65°	286.9	300.0	311.7	211.8	209.9
67.5°	247.7	257.4	262.7	186.6	212.8
70°	208.3	216.3	169.4	197.0	277.1
72.5°	169.3	180.0	128.6	228.5	187.2
75°	130.6	142.1	114.7	129.9	135.0
77.5°	96.8	101.4	101.0	100.6	102.4
80°	68.5	57.4	82.7	90.6	113.9
82.5°	44.6	37.0	58.7	85.0	89.8
85°	27.2	22.7	65.3	86.6	71.4
87.5°	16.8	21.9	50.7	51.0	46.1
90°	8.2	20.0	33.1	27.4	27.8
92.5°	7.4	15.0	16.8	13.4	13.3
95°	12.6	8.2	7.0	6.2	5.9
97.5°	17.0	5.1	4.5	4.6	4.6
100°	17.6	5.0	4.3	4.8	5.1
102.5°	16.8	5.4	4.2	3.8	3.5
105°	14.7	6.7	4.2	3.7	3.4
107.5°	12.6	7.2	4.2	3.7	3.5
110°	10.4	7.0	4.0	3.5	3.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	8.5	6.4	3.8	3.5	3.4
115°	6.9	5.8	3.7	3.2	3.2
117.5°	5.8	5.3	3.5	2.7	2.7
120°	4.8	4.8	3.4	2.4	2.4
122.5°	3.8	3.7	3.7	2.2	2.2
125°	3.2	2.7	7.0	2.2	2.1
127.5°	2.7	2.1	7.0	2.9	2.1
130°	2.2	1.8	3.4	7.4	3.2
132.5°	1.8	1.4	4.2	9.0	10.2
135°	1.4	1.1	6.1	2.9	5.1
137.5°	1.1	1.0	1.8	4.0	2.6
140°	1.0	0.8	1.0	8.8	5.3
142.5°	0.8	0.6	0.8	1.9	6.9
145°	0.6	0.6	0.6	1.0	1.1
147.5°	0.6	0.6	0.6	0.8	0.6
150°	0.6	0.5	0.6	0.5	0.5
152.5°	0.5	0.6	0.6	0.3	0.3
155°	0.6	0.6	0.6	0.5	0.3
157.5°	0.6	0.6	0.6	0.5	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	0.6	0.3
170°	0.6	0.8	0.8	0.6	0.5
172.5°	0.6	0.8	0.8	0.6	0.5
175°	0.8	0.8	0.8	0.6	0.5
177.5°	0.8	0.8	0.8	0.6	0.5
180°	0.6	0.6	0.6	0.6	0.6

(END OF REPORT)