

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: P397462

Luminaire Tested: **VRVT4S-LD5-9-PC-LR63-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P397462
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-LD5-9-PC-LR63-CD1-U
Description:
Light Source: -
Ballast/Driver: -

Summary

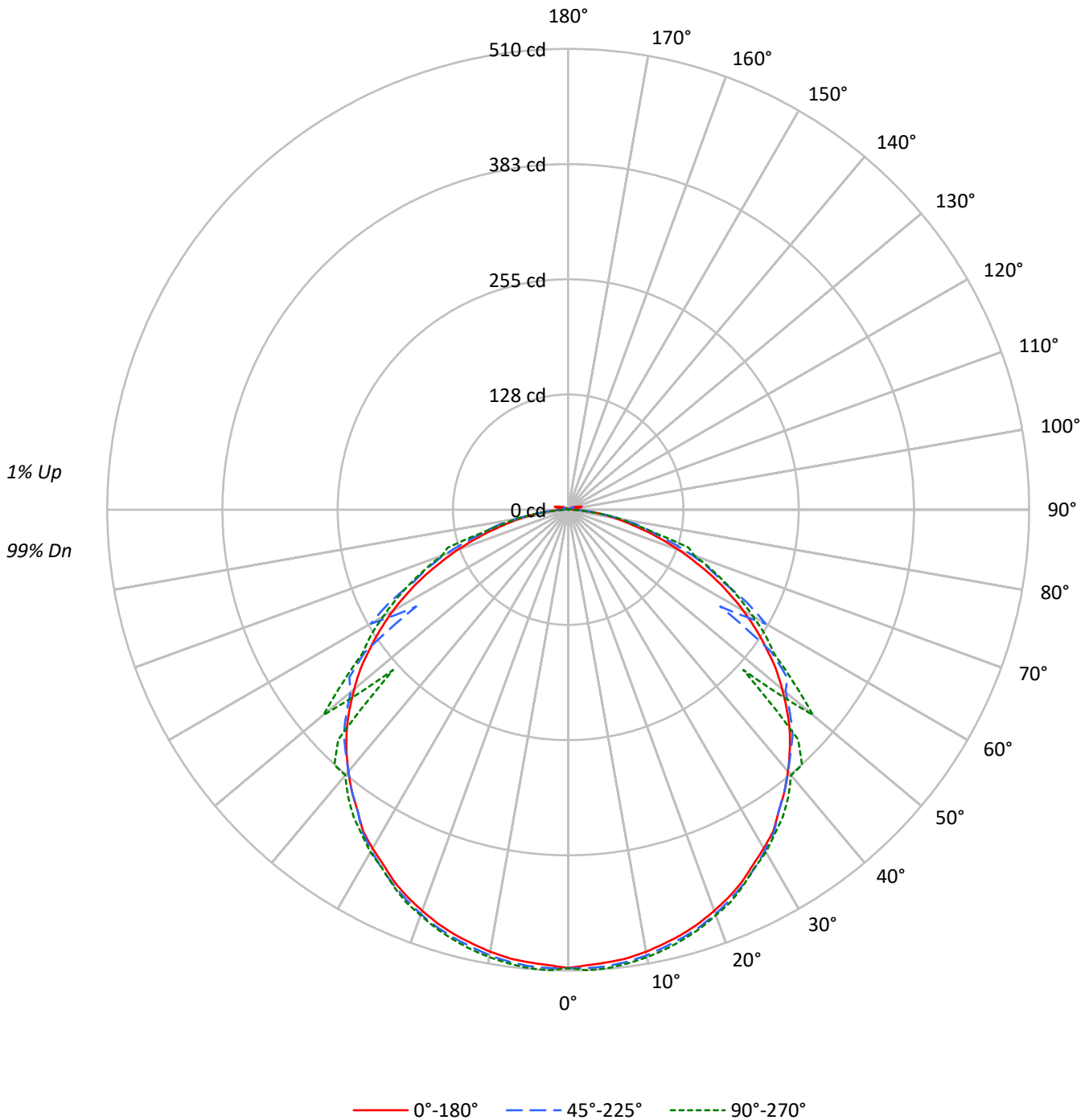
Lumens per Lamp: N/A
Luminaire Lumens: 1493.0 lumens
Efficiency: N/A
Efficacy: 9.4 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.28 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 1.08' x L: 2.08' x H: 0.25')
CIE Type: Direct

Input Watts (W): 159.3
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	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°	2421	2421	2421
5°	2383	2377	2390
10°	2357	2324	2340
15°	2328	2271	2291
20°	2298	2218	2238
25°	2267	2160	2180
30°	2230	2099	2127
35°	2184	2016	2077
40°	2141	1949	2001
45°	2089	1897	1970
50°	2008	1798	2057
55°	1900	1683	1740
60°	1769	1683	1611
65°	1596	1386	1451
70°	1370	1198	1269
75°	1090	922	974
80°	834	655	693
85°	531	335	293



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.2	3.2
10°-20°	138.4	9.3
20°-30°	210.7	14.1
30°-40°	256.4	17.2
40°-50°	267.0	17.9
50°-60°	244.1	16.3
60°-70°	185.9	12.4
70°-80°	100.9	6.8
80°-90°	27.8	1.9
90°-100°	3.6	0.2
100°-110°	4.8	0.3
110°-120°	3.2	0.2
120°-130°	1.2	0.1
130°-140°	0.5	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°	397.2	26.6
0°-40°	653.6	43.8
0°-60°	1164.7	78.0
0°-90°	1479.3	99.1
90°-120°	11.7	0.8
90°-150°	13.6	0.9
90°-180°	14.0	0.9
0°-180°	1493.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	507	507	507	507	507	
5°	503	505	507	509	509	48
15°	486	489	490	492	492	137
25°	455	457	458	459	459	209
35°	406	409	406	411	414	255
45°	347	348	351	368	359	267
55°	268	268	274	292	278	239
65°	178	183	188	192	192	175
75°	86	95	96	98	98	92
85°	23	25	24	20	20	25
90°	5	7	6	6	6	3
95°	4	3	3	2	2	5
105°	13	17	2	2	2	14
115°	7	4	7	1	1	7
125°	3	2	1	0	0	3
135°	1	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°	507.3	507.3	507.3	507.3	507.3
2.5°	504.4	506.0	507.7	509.5	510.2
5°	502.8	504.8	507.0	508.9	509.1
7.5°	500.7	502.8	504.3	505.9	506.4
10°	496.7	499.7	500.7	501.8	502.7
12.5°	491.8	494.6	495.5	497.7	498.2
15°	486.5	488.8	490.2	492.1	492.4
17.5°	480.1	482.4	484.0	485.0	485.7
20°	472.3	474.2	476.2	477.0	477.7
22.5°	464.2	465.4	467.3	468.6	469.8
25°	454.7	457.0	457.8	458.6	458.6
27.5°	442.9	446.3	446.9	445.7	446.7
30°	432.8	435.1	435.5	434.1	437.6
32.5°	422.0	422.1	423.3	423.0	425.3
35°	406.4	409.3	406.3	411.3	414.2
37.5°	393.1	395.4	392.9	400.5	400.0
40°	378.3	380.6	378.1	384.6	383.5
42.5°	362.9	364.9	364.3	367.3	382.9
45°	346.7	347.5	350.9	367.6	359.4
47.5°	328.3	329.0	332.7	326.8	262.8
50°	309.2	309.9	313.8	246.9	353.4
52.5°	289.9	288.9	305.2	332.0	314.3
55°	267.6	268.4	274.0	292.5	278.2
57.5°	246.2	248.0	199.5	257.4	258.8
60°	223.9	227.2	252.1	235.6	236.3
62.5°	200.8	206.4	222.9	213.9	214.5
65°	177.7	183.1	188.1	192.0	192.1
67.5°	153.1	161.4	167.8	166.3	170.3
70°	130.6	126.8	144.4	143.9	148.6
72.5°	107.3	116.6	118.6	102.9	139.5
75°	85.6	95.2	96.3	98.3	98.3
77.5°	66.3	71.9	80.1	76.3	73.5
80°	51.0	52.6	57.4	59.2	58.2
82.5°	37.9	35.7	39.6	41.3	37.4
85°	23.0	25.0	23.5	19.5	19.5
87.5°	9.5	12.0	10.6	9.7	8.6
90°	4.6	6.6	6.2	5.7	5.5
92.5°	4.8	4.6	3.3	2.3	1.8
95°	3.7	3.0	3.2	1.8	1.7
97.5°	7.0	2.2	2.2	1.6	1.3
100°	12.9	1.9	2.0	1.6	1.1
102.5°	15.4	2.8	2.0	1.6	1.6
105°	13.2	17.1	1.7	1.8	1.6
107.5°	11.2	7.8	1.3	1.6	1.8
110°	9.5	5.5	1.1	1.5	1.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	8.0	4.1	1.1	1.1	1.5
115°	6.9	4.3	6.8	0.9	0.9
117.5°	5.8	6.8	3.0	0.7	0.9
120°	4.7	3.9	1.8	0.9	0.6
122.5°	3.7	2.9	1.2	0.3	0.6
125°	3.1	2.3	0.9	0.2	0.3
127.5°	2.5	1.9	0.6	0.2	0.2
130°	2.0	1.8	0.4	0.2	0.2
132.5°	1.7	1.3	1.1	0.2	0.2
135°	1.3	1.0	0.4	0.2	0.2
137.5°	1.0	0.8	0.3	0.2	0.2
140°	0.8	0.6	0.2	0.2	0.1
142.5°	0.6	0.4	0.2	0.2	0.1
145°	0.4	0.2	0.2	0.2	0.1
147.5°	0.3	0.2	0.2	0.2	0.2
150°	0.2	0.2	0.2	0.2	0.2
152.5°	0.2	0.2	0.2	0.2	0.2
155°	0.2	0.2	0.2	0.2	0.2
157.5°	0.2	0.2	0.2	0.2	0.2
160°	0.2	0.2	0.2	0.2	0.2
162.5°	0.3	0.3	0.3	0.3	0.2
165°	0.3	0.3	0.3	0.3	0.3
167.5°	0.3	0.3	0.3	0.3	0.3
170°	0.3	0.3	0.3	0.3	0.3
172.5°	0.3	0.3	0.3	0.3	0.3
175°	0.3	0.3	0.3	0.3	0.3
177.5°	0.3	0.3	0.3	0.3	0.3
180°	0.3	0.3	0.3	0.3	0.3

(END OF REPORT)