

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: P397460

Luminaire Tested: **VRVT4S-LD5-9-PC-LA59-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P397460
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-LA59-CD1-U
Description:
Light Source: -
Ballast/Driver: -

Summary

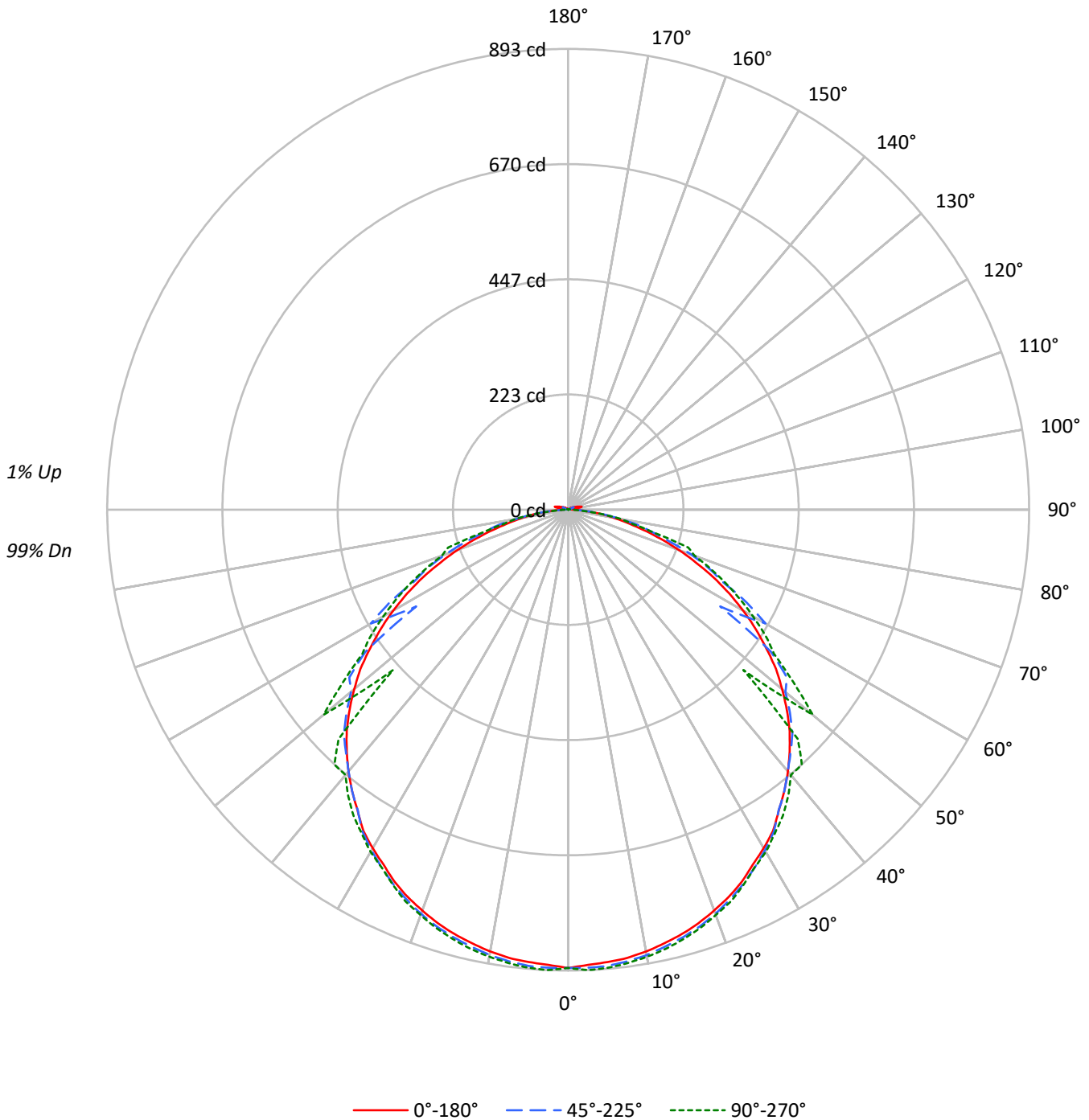
Lumens per Lamp: N/A
Luminaire Lumens: 2612.6 lumens
Efficiency: N/A
Efficacy: 27.8 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.28 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 1.08' x L: 2.08' x H: 0.25')
CIE Type: Direct

Input Watts (W): 94.1
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: P397460

CATALOG NUMBER: VRVT4S-LD5-9-PC-LA59-CD1-U

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°	4237	4237	4237
5°	4170	4160	4183
10°	4124	4067	4095
15°	4075	3974	4009
20°	4021	3881	3915
25°	3967	3780	3814
30°	3902	3672	3723
35°	3822	3529	3634
40°	3747	3411	3502
45°	3655	3321	3448
50°	3514	3146	3601
55°	3326	2945	3046
60°	3095	2944	2818
65°	2793	2425	2540
70°	2398	2096	2220
75°	1907	1613	1702
80°	1458	1147	1213
85°	928	587	515



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.3	3.2
10°-20°	242.1	9.3
20°-30°	368.7	14.1
30°-40°	448.7	17.2
40°-50°	467.3	17.9
50°-60°	427.1	16.3
60°-70°	325.2	12.4
70°-80°	176.5	6.8
80°-90°	48.6	1.9
90°-100°	6.2	0.2
100°-110°	8.5	0.3
110°-120°	5.6	0.2
120°-130°	2.2	0.1
130°-140°	0.9	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°	695.2	26.6
0°-40°	1143.8	43.8
0°-60°	2038.2	78.0
0°-90°	2588.7	99.1
90°-120°	20.3	0.8
90°-150°	23.6	0.9
90°-180°	24.0	0.9
0°-180°	2612.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	888	888	888	888	888	
5°	880	884	887	891	891	84
15°	851	856	858	861	862	240
25°	796	800	801	802	802	366
35°	711	716	711	720	725	446
45°	607	608	614	643	629	467
55°	468	470	480	512	487	419
65°	311	320	329	336	336	307
75°	150	167	168	172	172	161
85°	40	44	41	34	34	43
90°	8	12	11	10	10	6
95°	6	5	6	3	3	9
105°	23	30	3	3	3	24
115°	12	8	12	2	2	12
125°	5	4	2	0	0	5
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: P397460

CATALOG NUMBER: VRVT4S-LD5-9-PC-LA59-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	887.9	887.9	887.9	887.9	887.9
2.5°	882.8	885.6	888.6	891.7	892.9
5°	879.8	883.5	887.3	890.6	891.0
7.5°	876.2	879.8	882.4	885.2	886.1
10°	869.2	874.4	876.2	878.1	879.6
12.5°	860.7	865.5	867.1	870.9	871.8
15°	851.4	855.5	857.9	861.2	861.7
17.5°	840.1	844.1	846.9	848.8	850.1
20°	826.5	829.8	833.3	834.7	835.9
22.5°	812.4	814.5	817.8	820.1	822.2
25°	795.7	799.7	801.1	802.5	802.5
27.5°	775.1	781.1	782.1	780.0	781.8
30°	757.3	761.3	762.0	759.6	765.7
32.5°	738.5	738.7	740.8	740.3	744.3
35°	711.2	716.2	711.0	719.7	724.8
37.5°	687.8	692.0	687.7	700.9	700.0
40°	662.1	666.1	661.7	673.0	671.1
42.5°	635.0	638.5	637.5	642.7	670.1
45°	606.6	608.0	614.2	643.2	629.0
47.5°	574.6	575.8	582.3	571.8	460.0
50°	541.1	542.4	549.2	432.1	618.5
52.5°	507.3	505.6	534.2	581.0	550.0
55°	468.3	469.7	479.5	511.9	486.8
57.5°	430.9	434.0	349.2	450.4	452.8
60°	391.8	397.6	441.1	412.2	413.4
62.5°	351.4	361.2	390.1	374.2	375.5
65°	311.0	320.4	329.1	335.9	336.3
67.5°	268.0	282.4	293.6	290.9	298.1
70°	228.6	222.0	252.6	251.7	260.1
72.5°	187.8	204.0	207.5	180.2	244.1
75°	149.8	166.6	168.5	171.9	171.9
77.5°	116.0	125.8	140.3	133.4	128.6
80°	89.2	92.0	100.5	103.7	101.9
82.5°	66.4	62.6	69.3	72.3	65.5
85°	40.2	43.7	41.1	34.2	34.2
87.5°	16.5	20.9	18.5	16.9	15.0
90°	8.0	11.5	10.8	9.9	9.6
92.5°	8.4	8.0	5.7	4.0	3.1
95°	6.4	5.2	5.6	3.1	3.0
97.5°	12.2	3.8	3.8	2.8	2.3
100°	22.7	3.3	3.5	2.8	1.9
102.5°	27.0	4.9	3.5	2.8	2.8
105°	23.2	30.0	3.0	3.1	2.8
107.5°	19.7	13.6	2.3	2.8	3.1
110°	16.5	9.6	1.9	2.6	3.0



TEST NUMBER: P397460

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	13.9	7.1	1.9	1.9	2.6
115°	12.0	7.5	11.8	1.6	1.6
117.5°	10.1	11.8	5.2	1.2	1.6
120°	8.2	6.8	3.1	1.6	1.0
122.5°	6.4	5.0	2.1	0.5	1.0
125°	5.4	4.0	1.6	0.3	0.5
127.5°	4.4	3.3	1.0	0.3	0.3
130°	3.5	3.1	0.7	0.3	0.3
132.5°	3.0	2.3	1.9	0.3	0.3
135°	2.3	1.7	0.7	0.3	0.3
137.5°	1.7	1.4	0.5	0.3	0.3
140°	1.4	1.0	0.3	0.3	0.2
142.5°	1.0	0.7	0.3	0.3	0.2
145°	0.7	0.3	0.3	0.3	0.2
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	0.5
167.5°	0.5	0.5	0.5	0.5	0.5
170°	0.5	0.5	0.5	0.5	0.5
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)