

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: P397456

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

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P397456
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-LD5-9-DR-LR63-CD1-U
Description:
Light Source: -
Ballast/Driver: -

Summary

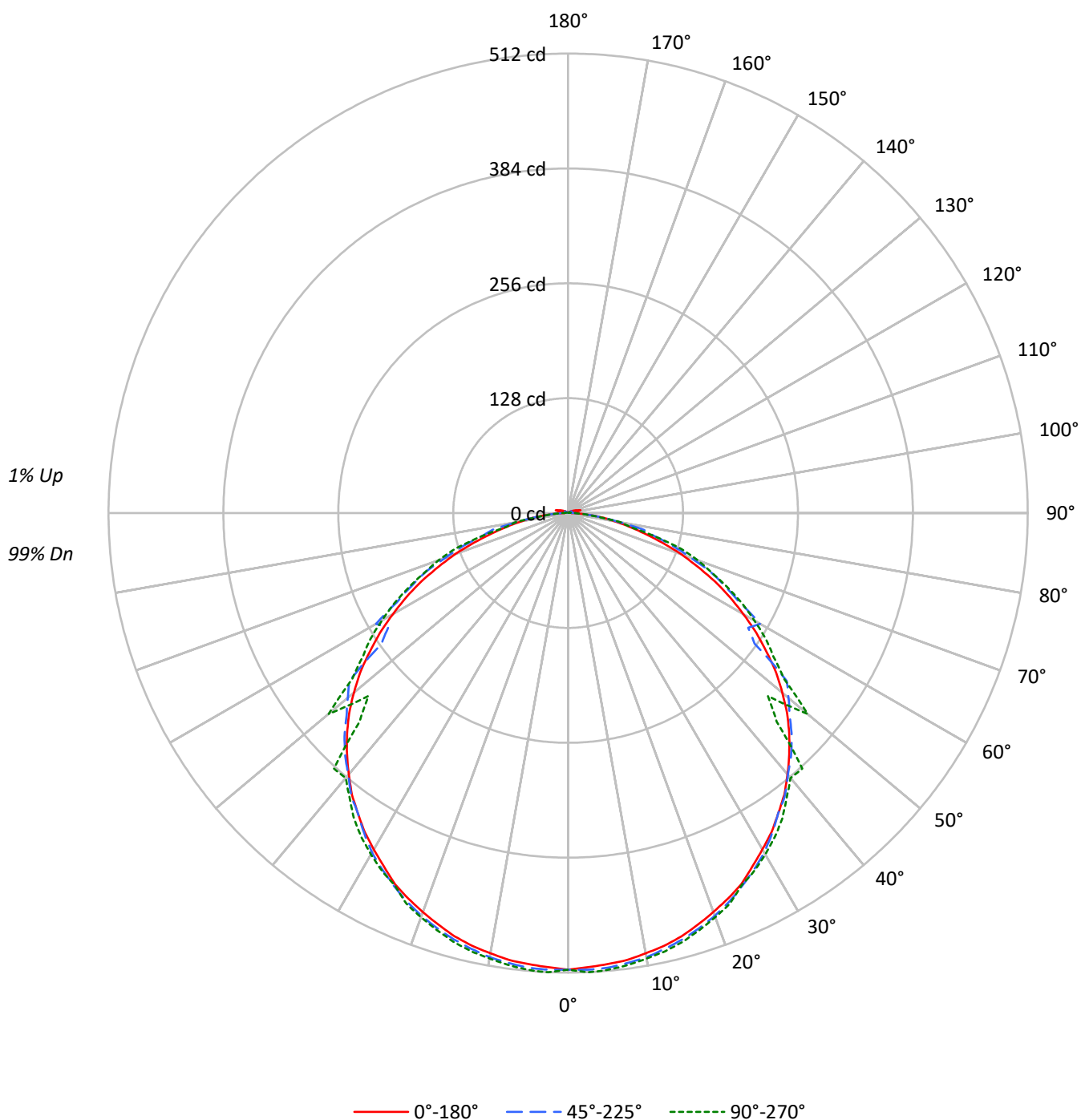
Lumens per Lamp: N/A
Luminaire Lumens: 1503.1 lumens
Efficiency: N/A
Efficacy: 10.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.28 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 1.08' x L: 2.08' x H: 0.25')
CIE Type: Direct

Input Watts (W): 146.4
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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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°	2428	2428	2428
5°	2392	2384	2399
10°	2363	2333	2346
15°	2336	2278	2300
20°	2302	2224	2245
25°	2275	2164	2174
30°	2230	2105	2135
35°	2193	2026	2084
40°	2151	1963	2011
45°	2098	1905	1801
50°	2023	1836	2027
55°	1917	1558	1748
60°	1780	1648	1633
65°	1618	1419	1478
70°	1407	1205	1309
75°	1118	952	977
80°	860	652	710
85°	542	311	316



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.3	3.2
10°-20°	138.8	9.2
20°-30°	211.3	14.1
30°-40°	257.3	17.1
40°-50°	268.8	17.9
50°-60°	245.9	16.4
60°-70°	187.8	12.5
70°-80°	102.4	6.8
80°-90°	27.7	1.8
90°-100°	4.2	0.3
100°-110°	5.1	0.3
110°-120°	3.1	0.2
120°-130°	1.5	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°	398.4	26.5
0°-40°	655.7	43.6
0°-60°	1170.4	77.9
0°-90°	1488.3	99.0
90°-120°	12.5	0.8
90°-150°	14.6	1.0
90°-180°	15.0	1.0
0°-180°	1503.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	509	509	509	509	509	
5°	505	507	509	510	511	48
15°	488	490	492	494	494	138
25°	456	458	459	460	457	210
35°	408	410	408	413	416	256
45°	348	350	352	370	328	268
55°	270	272	254	281	279	241
65°	180	186	193	193	196	178
75°	88	95	100	99	99	95
85°	24	24	22	21	21	26
90°	4	7	6	6	6	3
95°	4	4	4	3	3	5
105°	12	16	2	2	2	12
115°	6	3	4	1	2	6
125°	3	2	1	1	1	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°	508.8	508.8	508.8	508.8	508.8
2.5°	506.4	507.7	509.3	511.5	512.2
5°	504.6	506.7	508.6	510.4	510.9
7.5°	502.4	505.0	505.8	508.0	508.0
10°	498.1	501.0	502.6	504.0	504.0
12.5°	493.9	496.0	497.4	499.2	500.0
15°	488.2	490.1	491.8	493.6	494.4
17.5°	480.8	483.8	485.0	486.4	487.0
20°	473.1	476.0	477.6	478.9	479.2
22.5°	465.0	467.2	468.8	469.3	471.0
25°	456.3	457.8	458.6	459.8	457.3
27.5°	444.2	446.9	448.0	446.9	449.4
30°	432.8	435.5	436.8	437.1	439.2
32.5°	421.6	423.5	422.9	425.3	428.3
35°	408.2	410.4	408.2	413.4	415.7
37.5°	395.5	396.6	396.8	402.1	399.8
40°	380.2	381.6	380.8	384.2	385.4
42.5°	364.6	365.9	367.4	369.9	386.2
45°	348.2	349.8	352.3	370.4	328.5
47.5°	331.0	331.4	334.7	307.0	301.8
50°	311.5	311.4	320.5	291.5	348.2
52.5°	292.0	291.8	307.0	320.8	302.9
55°	269.9	271.5	253.6	281.3	279.4
57.5°	248.5	249.9	237.8	257.0	261.1
60°	225.3	230.9	246.9	239.4	239.5
62.5°	203.2	208.2	215.2	217.6	218.6
65°	180.2	185.6	192.6	193.3	195.7
67.5°	155.7	163.5	172.0	170.9	173.1
70°	134.1	124.5	145.3	146.2	153.3
72.5°	109.8	121.3	122.9	102.4	131.8
75°	87.8	94.6	99.5	99.4	98.7
77.5°	69.6	74.1	86.1	77.4	70.1
80°	52.6	53.9	57.1	56.8	59.7
82.5°	39.7	37.8	38.9	38.4	33.9
85°	23.5	23.7	21.8	21.1	21.0
87.5°	9.8	10.9	10.6	10.1	10.9
90°	4.0	6.7	6.4	6.2	6.1
92.5°	4.5	4.8	4.5	3.8	3.4
95°	3.8	3.5	3.7	3.0	3.0
97.5°	5.3	2.9	2.9	2.6	2.4
100°	10.6	2.6	2.7	2.2	2.2
102.5°	14.1	2.7	2.4	2.2	2.4
105°	12.3	16.3	2.1	2.2	2.2
107.5°	10.4	9.6	1.9	2.1	2.2
110°	8.8	5.9	1.6	1.9	2.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	7.2	4.2	1.4	1.6	1.9
115°	6.1	3.0	4.0	1.4	1.6
117.5°	5.1	3.2	4.3	1.3	1.4
120°	4.2	6.6	2.2	1.1	1.1
122.5°	3.4	3.0	1.6	0.8	1.0
125°	2.7	2.2	1.1	0.6	0.8
127.5°	2.2	1.8	0.8	0.5	0.6
130°	1.9	1.6	0.5	0.5	0.5
132.5°	1.6	1.3	0.5	0.3	0.5
135°	1.3	1.0	0.5	0.3	0.3
137.5°	1.0	0.8	0.3	0.3	0.3
140°	0.8	0.5	0.2	0.2	0.2
142.5°	0.6	0.5	0.2	0.2	0.2
145°	0.5	0.3	0.2	0.2	0.2
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	0.2
167.5°	0.3	0.3	0.3	0.3	0.2
170°	0.3	0.3	0.3	0.3	0.2
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)