

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: P397425

Luminaire Tested: **VRVT4S-LD5-12-PC-LG52-CD2-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P397425
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-LG52-CD2-U
Description:
Light Source: -
Ballast/Driver: -

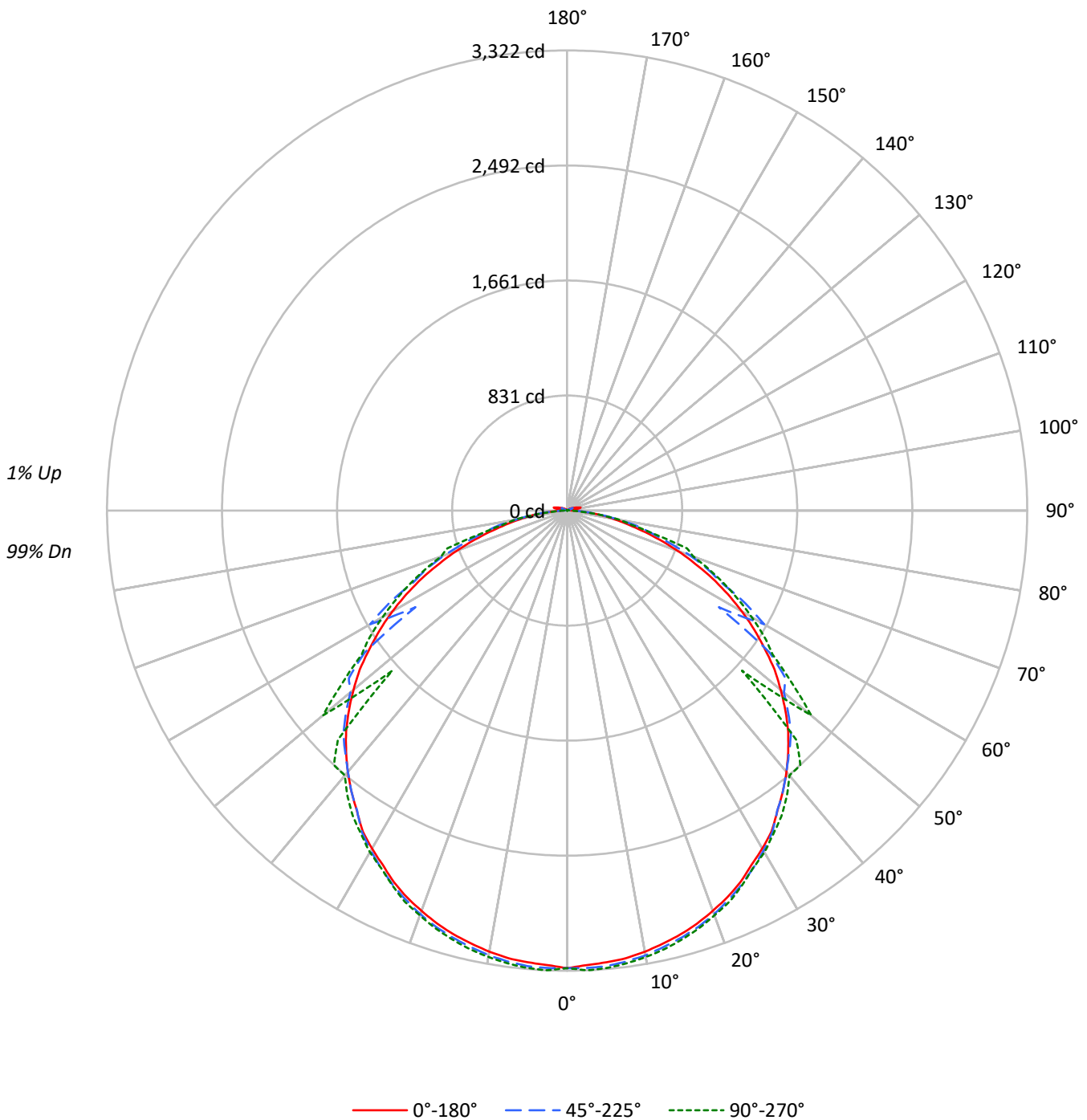
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9719.2 lumens
Efficiency: N/A
Efficacy: 48.7 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): 199.7
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: P397425
CATALOG NUMBER: VRVT4S-LD5-12-PC-LG52-CD2-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°	15759	15759	15759
5°	15514	15474	15561
10°	15341	15130	15234
15°	15159	14782	14913
20°	14958	14437	14566
25°	14757	14063	14189
30°	14517	13662	13848
35°	14216	13127	13520
40°	13937	12690	13027
45°	13596	12352	12827
50°	13073	11704	13394
55°	12372	10956	11329
60°	11516	10953	10485
65°	10388	9022	9447
70°	8921	7797	8261
75°	7097	5999	6335
80°	5425	4269	4511
85°	3455	2184	1911



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	313.5	3.2
10°-20°	900.7	9.3
20°-30°	1371.7	14.1
30°-40°	1669.1	17.2
40°-50°	1738.4	17.9
50°-60°	1588.9	16.3
60°-70°	1209.9	12.4
70°-80°	656.8	6.8
80°-90°	180.9	1.9
90°-100°	23.2	0.2
100°-110°	31.5	0.3
110°-120°	21.0	0.2
120°-130°	8.1	0.1
130°-140°	3.3	0.0
140°-150°	1.0	0.0
150°-160°	0.6	0.0
160°-170°	0.5	0.0
170°-180°	0.2	0.0
0°-30°	2586.0	26.6
0°-40°	4255.0	43.8
0°-60°	7582.3	78.0
0°-90°	9629.8	99.1
90°-120°	75.7	0.8
90°-150°	88.1	0.9
90°-180°	89.0	0.9
0°-180°	9719.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3303	3303	3303	3303	3303	
5°	3273	3287	3301	3313	3314	311
15°	3167	3182	3191	3204	3206	894
25°	2960	2975	2980	2985	2985	1363
35°	2646	2664	2645	2677	2696	1659
45°	2257	2262	2285	2393	2340	1737
55°	1742	1747	1784	1904	1811	1558
65°	1157	1192	1224	1250	1251	1141
75°	557	620	627	640	640	601
85°	150	163	153	127	127	161
90°	30	43	40	37	36	21
95°	24	19	21	12	11	35
105°	86	111	11	12	10	88
115°	45	28	44	6	6	45
125°	20	15	6	1	2	19
135°	8	6	3	1	1	7
145°	3	1	1	1	1	2
155°	1	1	1	1	1	1
165°	2	2	2	2	2	1
175°	2	2	2	2	2	0
180°	2	2	2	2	2	



TEST NUMBER: P397425

CATALOG NUMBER: VRVT4S-LD5-12-PC-LG52-CD2-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3302.8	3302.8	3302.8	3302.8	3302.8
2.5°	3284.0	3294.4	3305.4	3317.0	3321.6
5°	3273.0	3286.6	3300.9	3313.2	3314.5
7.5°	3259.4	3273.0	3282.7	3293.1	3296.3
10°	3233.4	3252.9	3259.4	3266.5	3272.3
12.5°	3201.7	3219.8	3225.7	3239.9	3243.2
15°	3167.4	3182.2	3191.4	3203.7	3205.6
17.5°	3125.2	3140.2	3150.5	3157.6	3162.2
20°	3074.6	3087.0	3099.9	3105.1	3109.7
22.5°	3022.2	3029.9	3042.2	3050.7	3058.5
25°	2959.9	2974.9	2980.1	2985.2	2985.2
27.5°	2883.4	2905.5	2909.4	2901.6	2908.1
30°	2817.4	2832.2	2834.9	2825.8	2848.5
32.5°	2747.4	2748.0	2755.8	2753.8	2768.7
35°	2645.6	2664.4	2645.0	2677.4	2696.2
37.5°	2558.8	2574.3	2558.2	2607.4	2604.2
40°	2462.9	2477.8	2461.5	2503.7	2496.6
42.5°	2362.4	2375.4	2371.4	2390.9	2492.6
45°	2256.7	2261.9	2284.6	2392.9	2339.7
47.5°	2137.5	2142.0	2166.0	2127.1	1711.0
50°	2013.0	2017.6	2042.9	1607.4	2300.8
52.5°	1887.3	1880.8	1987.1	2161.4	2046.1
55°	1742.2	1747.4	1783.6	1904.2	1810.9
57.5°	1602.8	1614.5	1298.8	1675.4	1684.5
60°	1457.6	1479.0	1641.0	1533.4	1538.0
62.5°	1307.3	1343.5	1451.1	1392.2	1396.7
65°	1156.9	1191.9	1224.3	1249.6	1250.9
67.5°	996.8	1050.6	1092.1	1082.3	1109.0
70°	850.3	825.7	939.8	936.6	967.7
72.5°	698.6	759.0	771.9	670.2	908.0
75°	557.4	619.6	626.7	639.7	639.7
77.5°	431.7	467.9	521.8	496.5	478.3
80°	331.8	342.2	374.0	385.6	379.1
82.5°	247.0	232.6	257.9	269.0	243.7
85°	149.7	162.6	153.0	127.0	127.0
87.5°	61.6	77.8	68.7	62.9	55.8
90°	29.8	42.8	40.2	37.0	35.7
92.5°	31.1	29.8	21.4	14.9	11.7
95°	24.0	19.4	20.7	11.7	11.0
97.5°	45.4	14.2	14.2	10.4	8.4
100°	84.2	12.3	13.0	10.4	7.1
102.5°	100.5	18.2	13.0	10.4	10.4
105°	86.2	111.4	11.0	11.7	10.4
107.5°	73.2	50.6	8.4	10.4	11.7
110°	61.6	35.7	7.1	9.8	11.0



TEST NUMBER: P397425

CATALOG NUMBER: VRVT4S-LD5-12-PC-LG52-CD2-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	51.8	26.6	7.1	7.1	9.8
115°	44.7	27.8	44.1	5.8	5.8
117.5°	37.6	44.1	19.4	4.6	5.8
120°	30.5	25.3	11.7	5.8	3.9
122.5°	24.0	18.8	7.8	1.9	3.9
125°	20.1	14.9	5.8	1.3	1.9
127.5°	16.2	12.3	3.9	1.3	1.3
130°	13.0	11.7	2.6	1.3	1.3
132.5°	11.0	8.4	7.1	1.3	1.3
135°	8.4	6.5	2.6	1.3	1.3
137.5°	6.5	5.2	1.9	1.3	1.3
140°	5.2	3.9	1.3	1.3	0.6
142.5°	3.9	2.6	1.3	1.3	0.6
145°	2.6	1.3	1.3	1.3	0.6
147.5°	1.9	1.3	1.3	1.3	1.3
150°	1.3	1.3	1.3	1.3	1.3
152.5°	1.3	1.3	1.3	1.3	1.3
155°	1.3	1.3	1.3	1.3	1.3
157.5°	1.3	1.3	1.3	1.3	1.3
160°	1.3	1.3	1.3	1.3	1.3
162.5°	1.9	1.9	1.9	1.9	1.3
165°	1.9	1.9	1.9	1.9	1.9
167.5°	1.9	1.9	1.9	1.9	1.9
170°	1.9	1.9	1.9	1.9	1.9
172.5°	1.9	1.9	1.9	1.9	1.9
175°	1.9	1.9	1.9	1.9	1.9
177.5°	1.9	1.9	1.9	1.9	1.9
180°	1.9	1.9	1.9	1.9	1.9

(END OF REPORT)