

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: P397389

Luminaire Tested: **VRVT4LED-LD5-18-PC-UNV-LG52-CD2-WL-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P397389
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-367-10)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: VRVT4LED-LD5-18-PC-UNV-LG52-CD2-WL-U
Description:
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

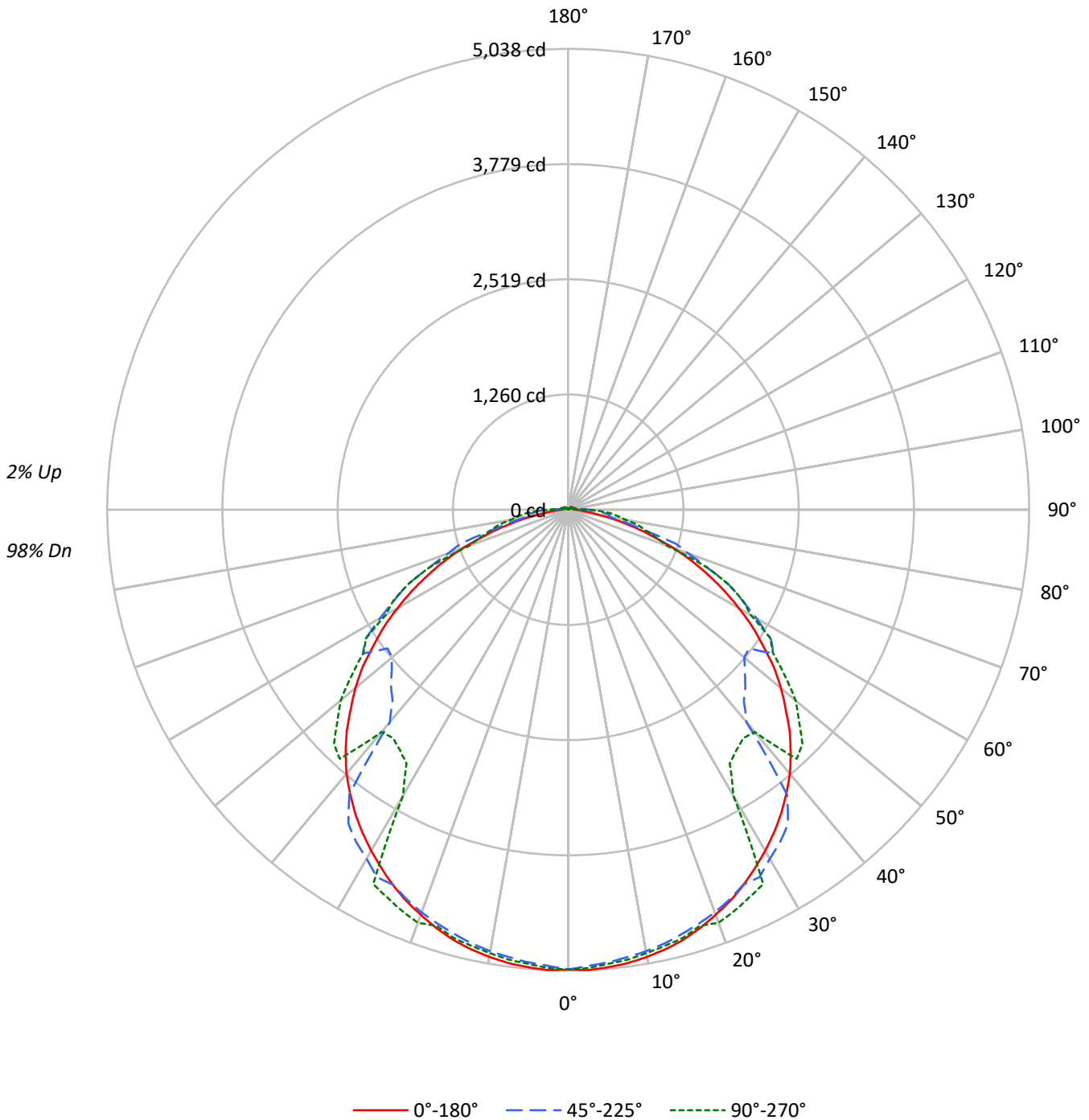
Lumens per Lamp: N/A
Luminaire Lumens: 14387.9 lumens
Efficiency: N/A
Efficacy: 45.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.13 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 1.04' x L: 4.12' x H: 0.25')
CIE Type: Direct

Input Watts (W): 317.3
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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	110	110	110	105	105	105	101	101	101
1	108	103	99	95	105	101	97	93	96	93	90	92	89	87	88	86	84
2	98	90	83	77	96	88	82	76	84	79	74	81	76	72	77	74	71
3	90	79	71	64	87	77	70	64	74	68	62	71	66	61	68	64	60
4	82	70	61	54	80	69	60	54	66	59	53	63	57	52	61	56	51
5	75	63	54	47	73	61	53	47	59	52	46	57	50	45	55	49	45
6	70	56	47	41	68	55	47	41	53	46	40	51	45	40	50	44	39
7	65	51	42	36	63	50	42	36	48	41	36	47	40	35	45	39	35
8	60	47	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31
9	56	43	35	29	55	42	34	29	41	34	29	40	33	28	38	33	28
10	53	39	32	26	51	39	31	26	38	31	26	37	30	26	36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12593	12593	12593
5°	12561	12264	12277
10°	12491	12018	12013
15°	12419	11785	11807
20°	12290	11592	11780
25°	12176	11377	11629
30°	12033	11350	9172
35°	11901	11148	8397
40°	11728	8414	8638
45°	11429	7998	10342
50°	11037	7811	9833
55°	10457	9180	8883
60°	9761	8683	8159
65°	8859	7873	7557
70°	7665	6455	5021
75°	5961	4542	4460
80°	4037	2998	3881
85°	2676	3185	3569



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	474.2	3.3
10°-20°	1364.3	9.5
20°-30°	2104.7	14.6
30°-40°	2363.5	16.4
40°-50°	2501.9	17.4
50°-60°	2364.0	16.4
60°-70°	1715.7	11.9
70°-80°	882.7	6.1
80°-90°	386.3	2.7
90°-100°	95.6	0.7
100°-110°	46.8	0.3
110°-120°	34.3	0.2
120°-130°	29.7	0.2
130°-140°	16.0	0.1
140°-150°	5.2	0.0
150°-160°	1.6	0.0
160°-170°	1.0	0.0
170°-180°	0.4	0.0
0°-30°	3943.2	27.4
0°-40°	6306.8	43.8
0°-60°	11172.7	77.7
0°-90°	14157.3	98.4
90°-120°	176.7	1.2
90°-150°	227.6	1.6
90°-180°	231.0	1.6
0°-180°	14387.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5027	5027	5027	5027	5027	
5°	5022	4999	4968	4981	4985	478
15°	4866	4822	4803	4833	4846	1373
25°	4530	4505	4524	4658	4678	2087
35°	4057	4065	4188	3187	3207	2536
45°	3422	3479	2738	3480	3620	2634
55°	2602	2650	2740	2782	2731	2330
65°	1689	1387	1934	1920	1931	1672
75°	755	734	842	694	874	810
85°	158	248	380	437	465	176
90°	69	146	234	221	210	41
95°	67	80	70	58	54	59
105°	70	54	39	34	33	74
115°	37	38	34	23	23	38
125°	18	16	25	60	70	17
135°	9	7	19	32	17	7
145°	5	4	3	12	10	3
155°	4	4	4	2	2	2
165°	4	4	4	3	2	1
175°	5	5	5	4	3	0
180°	4	4	4	4	4	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5027.1	5027.1	5027.1	5027.1	5027.1
2.5°	5038.3	5023.1	4991.1	5007.1	5015.9
5°	5021.5	4999.1	4967.9	4980.7	4984.7
7.5°	4999.1	4974.3	4933.5	4955.9	4961.5
10°	4963.1	4932.7	4901.5	4920.7	4922.3
12.5°	4921.5	4885.5	4858.3	4880.7	4883.9
15°	4866.3	4822.3	4803.1	4832.7	4845.5
17.5°	4795.1	4757.5	4745.5	4790.3	4771.1
20°	4711.9	4680.7	4684.7	4709.5	4804.7
22.5°	4628.7	4596.7	4610.3	4767.1	4747.9
25°	4529.5	4504.7	4523.9	4658.3	4678.3
27.5°	4419.1	4403.9	4527.9	4578.3	4614.3
30°	4305.5	4296.7	4405.5	4421.5	3610.3
32.5°	4184.7	4181.5	4310.3	3395.9	3287.9
35°	4056.7	4064.7	4187.9	3187.1	3207.1
37.5°	3914.3	3953.5	3928.7	3104.7	3144.7
40°	3768.7	3845.5	3031.9	3027.1	3173.5
42.5°	3599.1	3663.1	2839.9	3025.5	3694.3
45°	3421.5	3479.1	2737.5	3479.9	3619.9
47.5°	3221.5	3307.1	2615.9	3426.3	3419.1
50°	3036.7	3134.3	2511.9	3222.3	3244.7
52.5°	2833.5	2932.7	2490.3	3031.9	2987.9
55°	2601.5	2650.3	2739.9	2782.3	2731.1
57.5°	2391.2	2016.0	2623.9	2566.3	2618.3
60°	2152.8	1737.6	2371.2	2393.6	2305.6
62.5°	1925.6	1570.4	2141.6	2112.8	2152.8
65°	1688.8	1387.2	1933.6	1920.0	1931.2
67.5°	1460.8	1197.6	1631.2	1726.4	1636.0
70°	1220.8	1017.6	1396.0	1143.2	1137.6
72.5°	968.8	846.4	1227.2	1024.8	1004.0
75°	755.2	733.6	841.6	694.4	873.6
77.5°	552.0	697.6	640.8	789.6	784.0
80°	376.0	550.4	458.4	596.0	635.2
82.5°	247.2	368.8	457.6	554.4	549.6
85°	157.6	248.0	380.0	436.8	464.8
87.5°	108.0	184.0	324.8	356.0	344.8
90°	68.8	145.6	233.6	220.8	210.4
92.5°	56.0	116.8	136.8	120.8	106.4
95°	67.2	80.0	70.4	58.4	53.6
97.5°	80.0	55.2	48.0	45.6	46.4
100°	82.4	55.2	40.0	34.4	32.0
102.5°	78.4	57.6	39.2	35.2	32.0
105°	70.4	54.4	39.2	33.6	32.8
107.5°	61.6	49.6	40.0	32.0	28.8
110°	52.8	46.4	36.8	36.0	33.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	44.0	44.0	32.8	28.8	32.8
115°	36.8	38.4	33.6	23.2	23.2
117.5°	31.2	31.2	54.4	21.6	20.0
120°	26.4	24.8	54.4	34.4	20.8
122.5°	21.6	20.8	38.4	73.6	56.8
125°	18.4	16.0	24.8	60.0	70.4
127.5°	15.2	12.0	19.2	36.8	48.8
130°	12.8	9.6	28.0	21.6	31.2
132.5°	10.4	8.0	43.2	16.0	16.8
135°	8.8	7.2	19.2	32.0	16.8
137.5°	7.2	5.6	9.6	63.2	45.6
140°	6.4	4.8	8.8	21.6	54.4
142.5°	4.8	4.0	7.2	10.4	14.4
145°	4.8	4.0	3.2	12.0	10.4
147.5°	4.0	3.2	3.2	14.4	15.2
150°	4.0	3.2	3.2	4.8	13.6
152.5°	4.0	3.2	3.2	2.4	2.4
155°	4.0	4.0	4.0	2.4	1.6
157.5°	4.0	4.0	4.0	2.4	1.6
160°	4.0	4.0	4.0	2.4	1.6
162.5°	4.0	4.0	4.0	3.2	1.6
165°	4.0	4.0	4.0	3.2	2.4
167.5°	4.0	4.0	4.8	3.2	2.4
170°	4.0	4.0	4.8	3.2	2.4
172.5°	4.8	4.0	4.8	3.2	2.4
175°	4.8	4.8	4.8	4.0	3.2
177.5°	4.8	4.8	4.8	4.0	3.2
180°	4.0	4.0	4.0	4.0	4.0

(END OF REPORT)