

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: P397452

Luminaire Tested: **VRVT4S-LD5-18-PCF-LG52-CD2-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P397452
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1801-511-7)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: VRVT4S-LD5-18-PCF-LG52-CD2-U
Description:
Light Source: -
Ballast/Driver: -

Summary

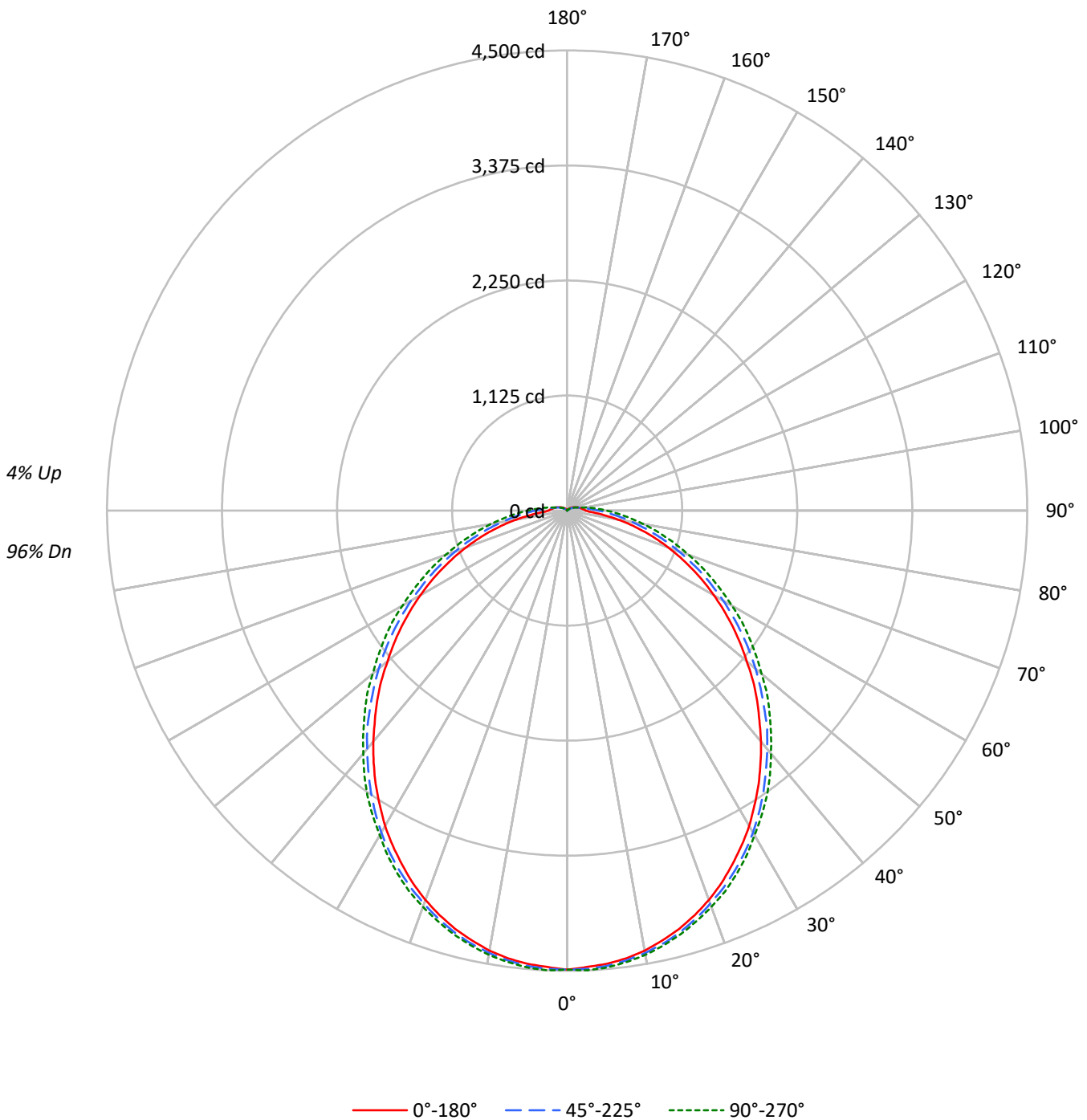
Lumens per Lamp: N/A
Luminaire Lumens: 12808.0 lumens
Efficiency: N/A
Efficacy: 39.1 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.32
Luminous Opening: Rectangular w/ Sides (W: 1.08' x L: 2.08' x H: 0.25')
CIE Type: Direct

Input Watts (W): 327.2
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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	96				
1	107	102	97	93	104	99	95	91	94	91	88	90	87	85	86	83	81	79				
2	97	89	82	76	94	87	80	75	82	77	72	79	74	70	75	71	68	66				
3	89	78	70	63	86	76	68	62	73	66	61	69	64	59	66	62	58	55				
4	81	69	60	53	79	67	59	53	65	57	52	62	56	51	59	54	50	47				
5	75	62	53	46	72	60	52	46	58	50	45	56	49	44	53	48	43	41				
6	69	56	47	40	67	55	46	40	52	45	39	50	44	39	48	43	38	36				
7	64	51	42	36	62	50	41	35	48	40	35	46	39	34	44	38	34	32				
8	60	46	38	32	58	45	37	32	44	36	31	42	36	31	41	35	30	28				
9	56	42	34	29	54	42	34	28	40	33	28	39	32	28	38	32	27	26				
10	52	39	31	26	51	38	31	26	37	30	26	36	30	25	35	29	25	23				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	21418	21418	21418
5°	21087	20954	21056
10°	20732	20390	20538
15°	20264	19767	19951
20°	19715	19054	19316
25°	19044	18321	18640
30°	18346	17522	17820
35°	17539	16620	17070
40°	16686	15688	16182
45°	15836	14726	15345
50°	14878	13787	14442
55°	14030	12785	13618
60°	13094	11768	12676
65°	12109	10725	11731
70°	10998	9622	10755
75°	9756	8484	9863
80°	8211	7409	8982
85°	6468	6461	8289



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	424.0	3.3
10°-20°	1202.0	9.4
20°-30°	1785.3	13.9
30°-40°	2089.4	16.3
40°-50°	2099.7	16.4
50°-60°	1861.5	14.5
60°-70°	1444.3	11.3
70°-80°	942.1	7.4
80°-90°	492.0	3.8
90°-100°	235.4	1.8
100°-110°	122.5	1.0
110°-120°	66.7	0.5
120°-130°	31.4	0.2
130°-140°	9.6	0.1
140°-150°	1.4	0.0
150°-160°	0.3	0.0
160°-170°	0.3	0.0
170°-180°	0.1	0.0
0°-30°	3411.3	26.6
0°-40°	5500.7	42.9
0°-60°	9461.9	73.9
0°-90°	12340.3	96.3
90°-120°	424.6	3.3
90°-150°	467.0	3.6
90°-180°	468.0	3.7
0°-180°	12808.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4489	4489	4489	4489	4489	
5°	4449	4454	4470	4480	4485	422
15°	4234	4245	4268	4282	4289	1193
25°	3820	3844	3883	3913	3922	1760
35°	3264	3297	3349	3390	3404	2040
45°	2628	2664	2724	2776	2799	2025
55°	1976	2012	2081	2152	2177	1767
65°	1349	1386	1455	1533	1553	1337
75°	766	802	886	968	996	813
85°	280	358	453	532	551	277
90°	181	234	310	369	383	102
95°	157	168	209	252	262	124
105°	115	110	112	114	120	122
115°	78	65	66	62	67	78
125°	48	39	28	29	35	44
135°	25	19	5	6	10	20
145°	7	4	0	0	0	5
155°	2	2	0	0	0	1
165°	2	2	1	0	0	1
175°	3	2	1	0	0	0
180°	1	1	1	1	1	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4488.7	4488.7	4488.7	4488.7	4488.7
2.5°	4467.8	4473.4	4485.8	4498.2	4500.2
5°	4448.7	4454.4	4469.7	4480.2	4484.9
7.5°	4416.3	4422.0	4436.3	4450.6	4452.5
10°	4369.6	4377.2	4392.5	4408.6	4411.5
12.5°	4305.8	4318.2	4337.2	4351.5	4355.3
15°	4234.2	4244.7	4267.6	4281.9	4288.6
17.5°	4148.5	4161.8	4185.7	4202.8	4210.4
20°	4052.2	4065.6	4091.3	4120.9	4123.7
22.5°	3943.6	3964.6	3992.2	4020.8	4032.2
25°	3819.7	3843.5	3882.6	3913.1	3921.7
27.5°	3693.9	3716.8	3764.4	3795.8	3802.6
30°	3560.5	3585.3	3635.8	3660.6	3665.3
32.5°	3411.8	3440.4	3494.7	3529.0	3537.6
35°	3264.1	3297.4	3348.9	3389.9	3404.2
37.5°	3107.8	3145.0	3194.6	3247.0	3258.4
40°	2948.6	2987.7	3043.0	3091.6	3101.1
42.5°	2782.8	2825.7	2894.3	2933.4	2951.5
45°	2628.4	2663.7	2723.8	2776.2	2799.0
47.5°	2465.4	2500.7	2563.6	2625.6	2651.3
50°	2291.0	2338.7	2406.4	2466.4	2480.7
52.5°	2136.6	2182.4	2241.5	2308.2	2330.2
55°	1975.6	2011.8	2081.4	2151.9	2176.7
57.5°	1815.5	1854.6	1918.4	1989.9	2027.0
60°	1657.3	1694.5	1763.1	1837.4	1859.4
62.5°	1503.8	1542.0	1603.9	1685.0	1706.9
65°	1348.6	1385.7	1455.3	1533.4	1553.4
67.5°	1197.9	1233.2	1304.7	1387.6	1412.4
70°	1048.3	1094.1	1159.8	1237.0	1259.9
72.5°	907.3	947.3	1022.6	1100.7	1127.4
75°	766.2	802.5	886.3	968.2	995.9
77.5°	633.8	680.5	762.4	852.0	873.9
80°	502.2	551.8	649.0	734.8	754.8
82.5°	383.1	447.0	546.1	630.9	643.3
85°	280.2	358.3	452.7	531.8	550.9
87.5°	210.6	286.9	379.3	445.0	462.2
90°	181.0	233.5	309.8	368.8	383.1
92.5°	168.7	194.4	254.5	306.9	316.4
95°	157.3	167.8	208.7	251.6	262.1
97.5°	145.8	149.6	175.4	205.8	214.4
100°	135.4	136.3	147.7	169.6	175.4
102.5°	124.9	122.0	126.7	138.2	143.0
105°	115.3	109.6	112.5	114.4	120.1
107.5°	105.8	97.2	99.1	97.2	100.1
110°	96.2	84.8	86.7	83.8	86.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	86.7	74.3	76.2	72.4	76.2
115°	78.2	64.8	65.8	61.9	66.7
117.5°	70.6	58.2	55.3	52.4	58.2
120°	61.9	50.5	45.8	43.8	50.5
122.5°	55.3	44.8	36.2	36.2	42.9
125°	47.7	39.0	27.6	28.6	35.3
127.5°	41.9	33.4	20.0	22.9	28.6
130°	36.2	28.6	12.4	17.1	22.9
132.5°	29.5	22.9	7.6	11.4	16.2
135°	24.8	19.0	4.8	5.7	10.5
137.5°	20.0	14.3	1.9	1.0	4.8
140°	15.3	10.5	1.0	0.0	0.0
142.5°	10.5	6.6	0.0	0.0	0.0
145°	6.6	3.8	0.0	0.0	0.0
147.5°	3.8	1.9	0.0	0.0	0.0
150°	1.9	1.0	0.0	0.0	0.0
152.5°	1.9	1.0	0.0	0.0	0.0
155°	1.9	1.9	0.0	0.0	0.0
157.5°	1.9	1.9	1.0	0.0	0.0
160°	1.9	1.9	1.0	0.0	0.0
162.5°	1.9	1.9	1.0	0.0	0.0
165°	1.9	1.9	1.0	0.0	0.0
167.5°	1.9	1.9	1.0	0.0	0.0
170°	1.9	1.9	1.0	0.0	0.0
172.5°	1.9	1.9	1.0	0.0	0.0
175°	2.9	1.9	1.0	0.0	0.0
177.5°	2.9	1.9	1.0	0.0	0.0
180°	1.0	1.0	1.0	1.0	1.0

(END OF REPORT)