

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: P397437

Luminaire Tested: **VRVT4S-LD5-15-PC-LG52-CD2-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P397437
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-LD5-15-PC-LG52-CD2-U
Description:
Light Source: -
Ballast/Driver: -

Summary

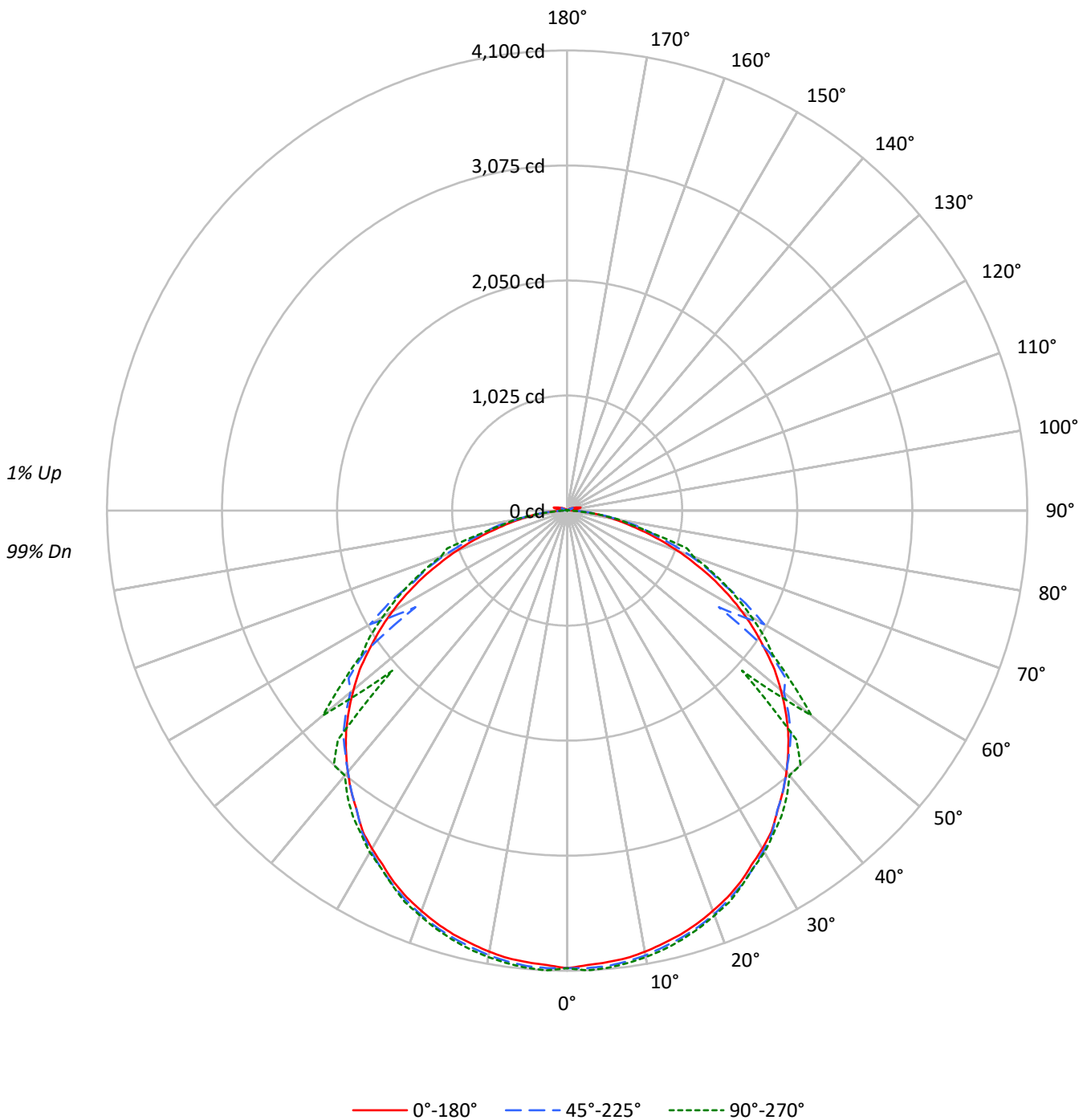
Lumens per Lamp: N/A
Luminaire Lumens: 11996.8 lumens
Efficiency: N/A
Efficacy: 46.5 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.28 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 1.08' x L: 2.08' x H: 0.25')
CIE Type: Direct

Input Watts (W): 257.8
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	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°	19452	19452	19452
5°	19149	19101	19208
10°	18937	18676	18805
15°	18711	18246	18407
20°	18464	17820	17980
25°	18216	17358	17514
30°	17919	16864	17094
35°	17547	16202	16688
40°	17203	15664	16080
45°	16783	15246	15833
50°	16137	14447	16533
55°	15271	13523	13984
60°	14215	13520	12942
65°	12822	11137	11660
70°	11012	9623	10196
75°	8760	7405	7820
80°	6697	5269	5569
85°	4266	2695	2359



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	387.0	3.2
10°-20°	1111.8	9.3
20°-30°	1693.2	14.1
30°-40°	2060.2	17.2
40°-50°	2145.8	17.9
50°-60°	1961.2	16.3
60°-70°	1493.5	12.4
70°-80°	810.7	6.8
80°-90°	223.2	1.9
90°-100°	28.6	0.2
100°-110°	38.9	0.3
110°-120°	26.0	0.2
120°-130°	10.0	0.1
130°-140°	4.0	0.0
140°-150°	1.3	0.0
150°-160°	0.7	0.0
160°-170°	0.6	0.0
170°-180°	0.2	0.0
0°-30°	3192.0	26.6
0°-40°	5252.2	43.8
0°-60°	9359.1	78.0
0°-90°	11886.5	99.1
90°-120°	93.4	0.8
90°-150°	108.7	0.9
90°-180°	110.0	0.9
0°-180°	11996.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4077	4077	4077	4077	4077	
5°	4040	4057	4074	4090	4091	384
15°	3910	3928	3939	3954	3957	1104
25°	3654	3672	3678	3685	3685	1683
35°	3266	3289	3265	3305	3328	2048
45°	2786	2792	2820	2954	2888	2144
55°	2150	2157	2202	2350	2235	1923
65°	1428	1471	1511	1542	1544	1409
75°	688	765	774	790	790	741
85°	185	201	189	157	157	199
90°	37	53	50	46	44	26
95°	30	24	26	14	14	43
105°	106	138	14	14	13	109
115°	55	34	54	7	7	55
125°	25	18	7	2	2	23
135°	10	8	3	2	2	8
145°	3	2	2	2	1	2
155°	2	2	2	2	2	1
165°	2	2	2	2	2	1
175°	2	2	2	2	2	0
180°	2	2	2	2	2	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4076.8	4076.8	4076.8	4076.8	4076.8
2.5°	4053.6	4066.4	4080.0	4094.4	4100.0
5°	4040.0	4056.8	4074.4	4089.6	4091.2
7.5°	4023.2	4040.0	4052.0	4064.8	4068.8
10°	3991.2	4015.2	4023.2	4032.0	4039.2
12.5°	3952.0	3974.4	3981.6	3999.2	4003.2
15°	3909.6	3928.0	3939.2	3954.4	3956.8
17.5°	3857.6	3876.0	3888.8	3897.6	3903.2
20°	3795.2	3810.4	3826.4	3832.8	3838.4
22.5°	3730.4	3740.0	3755.2	3765.6	3775.2
25°	3653.6	3672.0	3678.4	3684.8	3684.8
27.5°	3559.2	3586.4	3591.2	3581.6	3589.6
30°	3477.6	3496.0	3499.2	3488.0	3516.0
32.5°	3391.2	3392.0	3401.6	3399.2	3417.6
35°	3265.6	3288.8	3264.8	3304.8	3328.0
37.5°	3158.4	3177.6	3157.6	3218.4	3214.4
40°	3040.0	3058.4	3038.4	3090.4	3081.6
42.5°	2916.0	2932.0	2927.2	2951.2	3076.8
45°	2785.6	2792.0	2820.0	2953.6	2888.0
47.5°	2638.4	2644.0	2673.6	2625.6	2112.0
50°	2484.8	2490.4	2521.6	1984.0	2840.0
52.5°	2329.6	2321.6	2452.8	2668.0	2525.6
55°	2150.4	2156.8	2201.6	2350.4	2235.2
57.5°	1978.4	1992.8	1603.2	2068.0	2079.2
60°	1799.2	1825.6	2025.6	1892.8	1898.4
62.5°	1613.6	1658.4	1791.2	1718.4	1724.0
65°	1428.0	1471.2	1511.2	1542.4	1544.0
67.5°	1230.4	1296.8	1348.0	1336.0	1368.8
70°	1049.6	1019.2	1160.0	1156.0	1194.4
72.5°	862.4	936.8	952.8	827.2	1120.8
75°	688.0	764.8	773.6	789.6	789.6
77.5°	532.8	577.6	644.0	612.8	590.4
80°	409.6	422.4	461.6	476.0	468.0
82.5°	304.8	287.2	318.4	332.0	300.8
85°	184.8	200.8	188.8	156.8	156.8
87.5°	76.0	96.0	84.8	77.6	68.8
90°	36.8	52.8	49.6	45.6	44.0
92.5°	38.4	36.8	26.4	18.4	14.4
95°	29.6	24.0	25.6	14.4	13.6
97.5°	56.0	17.6	17.6	12.8	10.4
100°	104.0	15.2	16.0	12.8	8.8
102.5°	124.0	22.4	16.0	12.8	12.8
105°	106.4	137.6	13.6	14.4	12.8
107.5°	90.4	62.4	10.4	12.8	14.4
110°	76.0	44.0	8.8	12.0	13.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	64.0	32.8	8.8	8.8	12.0
115°	55.2	34.4	54.4	7.2	7.2
117.5°	46.4	54.4	24.0	5.6	7.2
120°	37.6	31.2	14.4	7.2	4.8
122.5°	29.6	23.2	9.6	2.4	4.8
125°	24.8	18.4	7.2	1.6	2.4
127.5°	20.0	15.2	4.8	1.6	1.6
130°	16.0	14.4	3.2	1.6	1.6
132.5°	13.6	10.4	8.8	1.6	1.6
135°	10.4	8.0	3.2	1.6	1.6
137.5°	8.0	6.4	2.4	1.6	1.6
140°	6.4	4.8	1.6	1.6	0.8
142.5°	4.8	3.2	1.6	1.6	0.8
145°	3.2	1.6	1.6	1.6	0.8
147.5°	2.4	1.6	1.6	1.6	1.6
150°	1.6	1.6	1.6	1.6	1.6
152.5°	1.6	1.6	1.6	1.6	1.6
155°	1.6	1.6	1.6	1.6	1.6
157.5°	1.6	1.6	1.6	1.6	1.6
160°	1.6	1.6	1.6	1.6	1.6
162.5°	2.4	2.4	2.4	2.4	1.6
165°	2.4	2.4	2.4	2.4	2.4
167.5°	2.4	2.4	2.4	2.4	2.4
170°	2.4	2.4	2.4	2.4	2.4
172.5°	2.4	2.4	2.4	2.4	2.4
175°	2.4	2.4	2.4	2.4	2.4
177.5°	2.4	2.4	2.4	2.4	2.4
180°	2.4	2.4	2.4	2.4	2.4

(END OF REPORT)