

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: P397374

Luminaire Tested: **VRVT4LED-LD5-15-DR-UNV-LG52-CD2-WL-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P397374
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-367-5)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: VRVT4LED-LD5-15-DR-UNV-LG52-CD2-WL-U
Description:
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

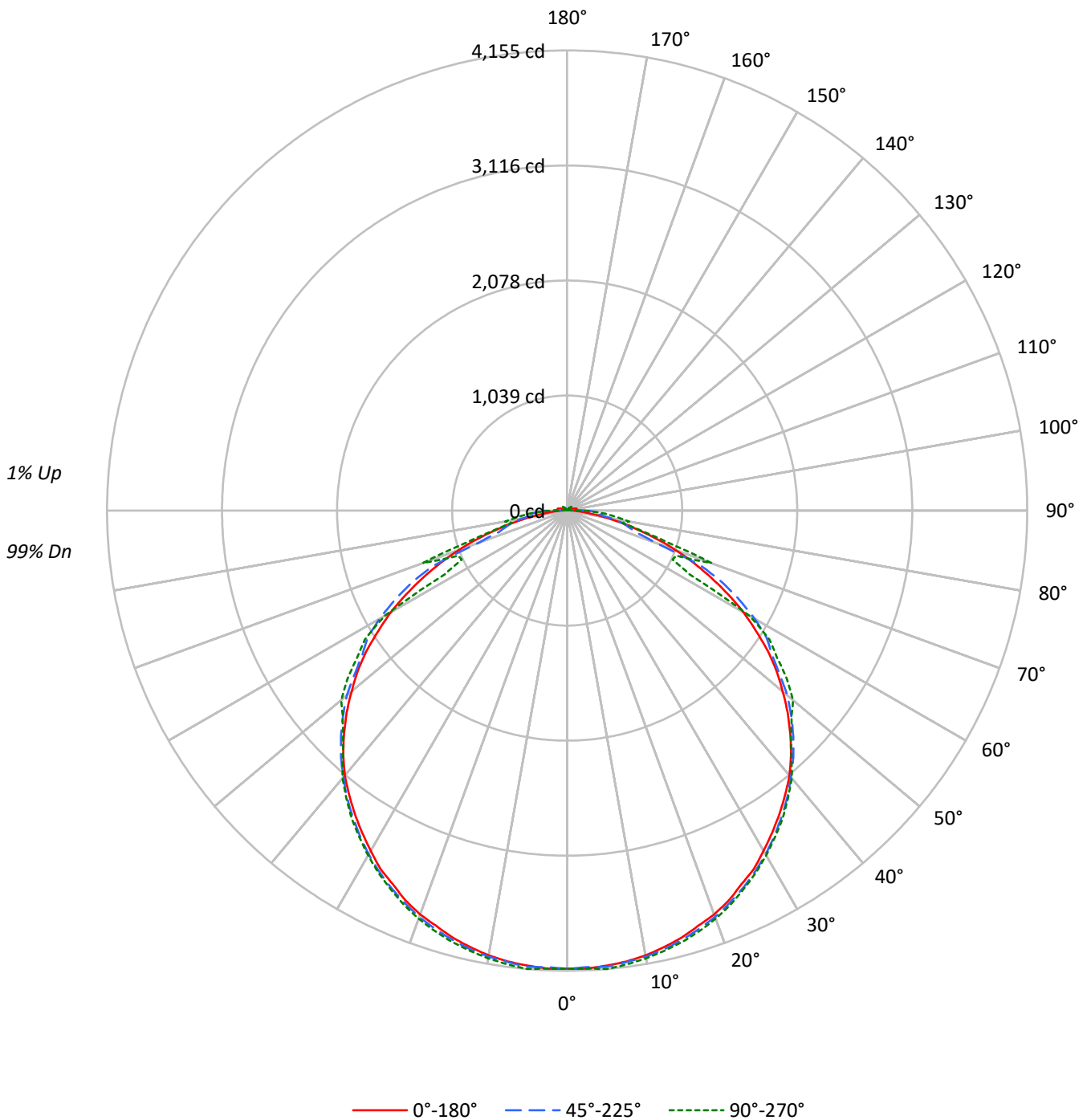
Lumens per Lamp: N/A
Luminaire Lumens: 12183.3 lumens
Efficiency: N/A
Efficacy: 45.5 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.29 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 1.04' x L: 4.12' x H: 0.25')
CIE Type: Direct

Input Watts (W): 267.6
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	0
RCR																		
0	119	119	119	119	116	116	116	116	110	110	110	105	105	105	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	84	78	96	88	82	77	85	79	75	81	77	73	78	74	71	69
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	64	60	58
4	82	70	62	55	80	69	61	54	66	59	53	64	58	53	61	56	52	50
5	76	63	54	47	73	62	53	47	59	52	46	57	51	46	55	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	44	37	32	43	36	32	42	36	31	29
9	56	43	35	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10361	10361	10361
5°	10314	10207	10234
10°	10265	10025	10018
15°	10188	9842	9819
20°	10120	9662	9615
25°	10006	9454	9375
30°	9914	9236	9132
35°	9806	8985	8881
40°	9717	8721	8586
45°	9516	8436	8167
50°	9232	8070	8068
55°	8895	7548	7526
60°	8346	7154	6721
65°	7524	6345	4107
70°	6540	3917	6116
75°	5153	3096	3447
80°	3676	2705	3480
85°	2309	2735	2740



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	393.4	3.2
10°-20°	1134.0	9.3
20°-30°	1733.4	14.2
30°-40°	2113.8	17.4
40°-50°	2220.3	18.2
50°-60°	2035.4	16.7
60°-70°	1390.8	11.4
70°-80°	728.3	6.0
80°-90°	285.0	2.3
90°-100°	59.2	0.5
100°-110°	31.0	0.3
110°-120°	22.1	0.2
120°-130°	15.8	0.1
130°-140°	13.9	0.1
140°-150°	4.3	0.0
150°-160°	1.3	0.0
160°-170°	0.9	0.0
170°-180°	0.3	0.0
0°-30°	3260.8	26.8
0°-40°	5374.6	44.1
0°-60°	9630.4	79.0
0°-90°	12034.6	98.8
90°-120°	112.3	0.9
90°-150°	146.2	1.2
90°-180°	149.0	1.2
0°-180°	12183.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4136	4136	4136	4136	4136	
5°	4123	4135	4134	4146	4155	392
15°	3992	4013	4011	4026	4030	1127
25°	3722	3756	3759	3773	3771	1719
35°	3342	3382	3375	3390	3392	2093
45°	2849	2891	2887	2872	2858	2196
55°	2213	2255	2253	2336	2314	1970
65°	1434	1500	1558	1059	1050	1423
75°	653	710	574	650	675	705
85°	136	114	326	433	357	156
90°	41	100	166	137	139	28
95°	63	41	35	31	30	57
105°	74	34	21	18	17	77
115°	34	29	18	16	16	36
125°	16	14	35	11	10	15
135°	7	6	30	14	26	6
145°	3	3	3	5	6	2
155°	3	3	3	2	2	1
165°	3	3	4	2	2	1
175°	4	4	4	3	2	0
180°	3	3	3	3	3	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4136.1	4136.1	4136.1	4136.1	4136.1
2.5°	4139.3	4143.3	4126.5	4134.5	4138.5
5°	4123.3	4135.3	4134.5	4146.5	4155.3
7.5°	4106.5	4108.9	4112.1	4129.7	4132.9
10°	4078.5	4096.9	4088.9	4104.9	4104.9
12.5°	4036.9	4057.7	4056.1	4070.5	4070.5
15°	3992.1	4012.9	4011.3	4026.5	4029.7
17.5°	3932.1	3961.7	3960.1	3979.3	3979.3
20°	3880.1	3902.5	3904.9	3920.9	3921.7
22.5°	3812.1	3836.9	3834.5	3851.3	3852.9
25°	3722.5	3756.1	3759.3	3772.9	3771.3
27.5°	3649.7	3672.1	3674.5	3685.7	3688.1
30°	3547.3	3582.5	3584.9	3593.7	3594.5
32.5°	3445.7	3486.5	3482.5	3496.1	3493.7
35°	3342.5	3381.7	3375.3	3390.5	3392.1
37.5°	3234.5	3268.9	3265.7	3279.3	3274.5
40°	3122.5	3148.9	3142.5	3151.3	3154.5
42.5°	2992.1	3023.3	3023.3	3021.7	2996.9
45°	2848.9	2891.3	2887.3	2872.1	2858.5
47.5°	2700.1	2744.1	2745.7	2725.7	2748.1
50°	2540.1	2596.1	2595.3	2596.1	2662.5
52.5°	2384.9	2433.7	2412.9	2514.5	2501.7
55°	2212.9	2255.3	2252.9	2336.1	2313.7
57.5°	2020.0	2071.2	2135.3	2151.3	2166.5
60°	1840.8	1888.0	1953.6	1980.0	1899.2
62.5°	1639.2	1688.8	1759.2	1669.6	1241.6
65°	1434.4	1500.0	1558.4	1059.2	1049.6
67.5°	1238.4	1287.2	1313.6	932.8	1064.0
70°	1041.6	1081.6	847.2	984.8	1385.6
72.5°	846.4	900.0	643.2	1142.4	936.0
75°	652.8	710.4	573.6	649.6	675.2
77.5°	484.0	507.2	504.8	503.2	512.0
80°	342.4	287.2	413.6	452.8	569.6
82.5°	223.2	184.8	293.6	424.8	448.8
85°	136.0	113.6	326.4	432.8	356.8
87.5°	84.0	109.6	253.6	255.2	230.4
90°	40.8	100.0	165.6	136.8	139.2
92.5°	36.8	75.2	84.0	67.2	66.4
95°	63.2	40.8	35.2	31.2	29.6
97.5°	84.8	25.6	22.4	23.2	23.2
100°	88.0	24.8	21.6	24.0	25.6
102.5°	84.0	27.2	20.8	19.2	17.6
105°	73.6	33.6	20.8	18.4	16.8
107.5°	63.2	36.0	20.8	18.4	17.6
110°	52.0	35.2	20.0	17.6	16.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	42.4	32.0	19.2	17.6	16.8
115°	34.4	28.8	18.4	16.0	16.0
117.5°	28.8	26.4	17.6	13.6	13.6
120°	24.0	24.0	16.8	12.0	12.0
122.5°	19.2	18.4	18.4	11.2	11.2
125°	16.0	13.6	35.2	11.2	10.4
127.5°	13.6	10.4	35.2	14.4	10.4
130°	11.2	8.8	16.8	36.8	16.0
132.5°	8.8	7.2	20.8	44.8	51.2
135°	7.2	5.6	30.4	14.4	25.6
137.5°	5.6	4.8	8.8	20.0	12.8
140°	4.8	4.0	4.8	44.0	26.4
142.5°	4.0	3.2	4.0	9.6	34.4
145°	3.2	3.2	3.2	4.8	5.6
147.5°	3.2	3.2	3.2	4.0	3.2
150°	3.2	2.4	3.2	2.4	2.4
152.5°	2.4	3.2	3.2	1.6	1.6
155°	3.2	3.2	3.2	2.4	1.6
157.5°	3.2	3.2	3.2	2.4	1.6
160°	3.2	3.2	3.2	2.4	1.6
162.5°	3.2	3.2	3.2	2.4	1.6
165°	3.2	3.2	4.0	2.4	1.6
167.5°	3.2	4.0	4.0	3.2	1.6
170°	3.2	4.0	4.0	3.2	2.4
172.5°	3.2	4.0	4.0	3.2	2.4
175°	4.0	4.0	4.0	3.2	2.4
177.5°	4.0	4.0	4.0	3.2	2.4
180°	3.2	3.2	3.2	3.2	3.2

(END OF REPORT)