

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: P397387

Luminaire Tested: **VRVT4LED-LD5-18-DRF-UNV-LR63-CD2-WL-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P397387
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-367-9)
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-DRF-UNV-LR63-CD2-WL-U
Description:
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

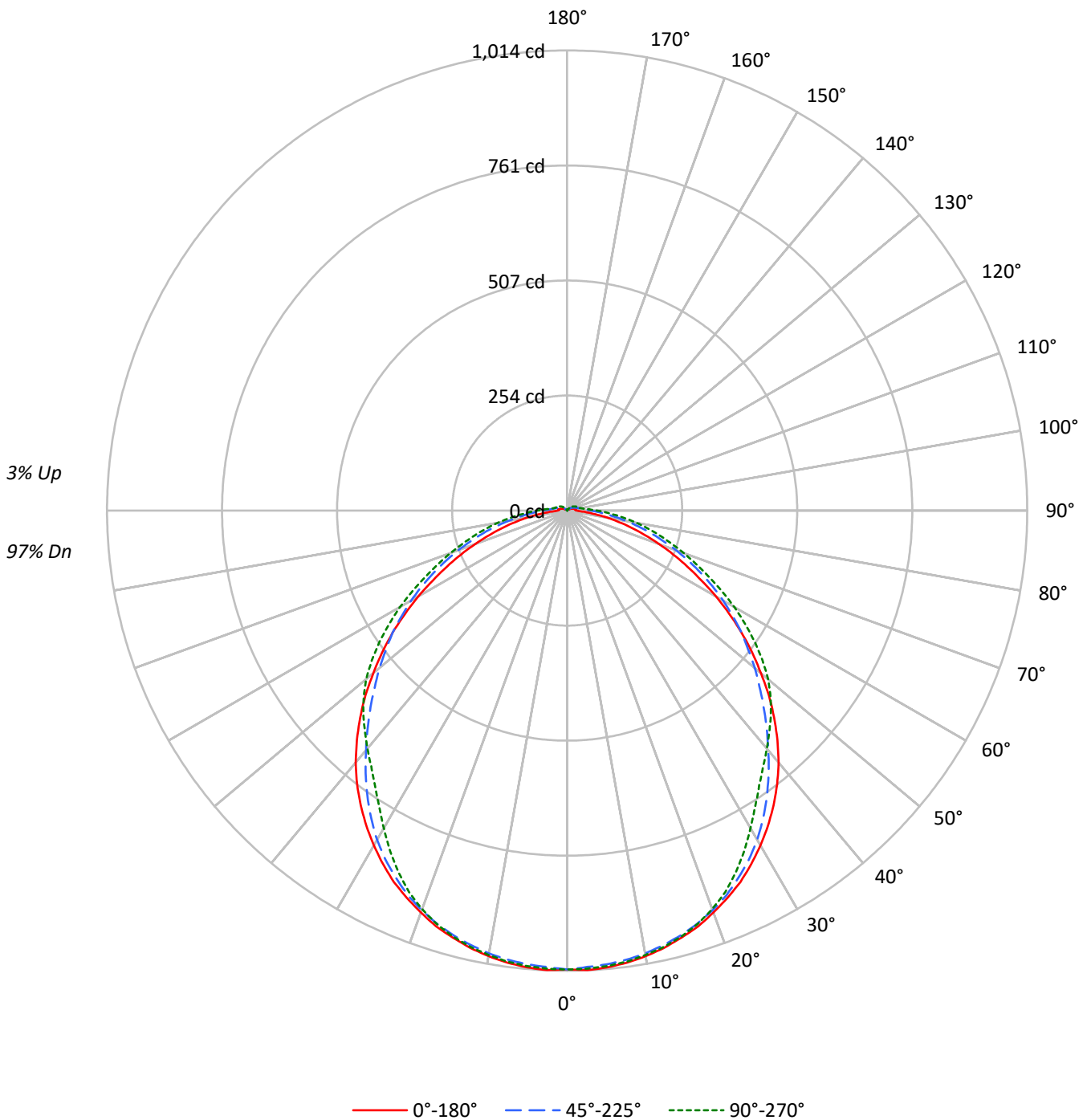
Lumens per Lamp: N/A
Luminaire Lumens: 2866.1 lumens
Efficiency: N/A
Efficacy: 8.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.19 / 1.32
Luminous Opening: Rectangular w/ Sides (W: 1.04' x L: 4.12' x H: 0.25')
CIE Type: Direct

Input Watts (W): 345.2
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	0
RCR																		
0	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	97
1	108	103	98	94	105	100	96	92	95	92	89	91	88	86	87	85	83	80
2	98	90	83	77	95	87	81	76	83	78	73	80	75	71	76	72	69	67
3	89	79	70	64	87	77	69	63	73	67	62	70	65	60	67	63	59	56
4	82	70	61	54	79	68	60	54	65	58	53	63	57	52	60	55	51	48
5	75	62	53	47	73	61	53	46	59	51	46	56	50	45	54	49	44	42
6	70	56	47	41	67	55	47	41	53	46	40	51	44	39	49	43	39	37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	45	39	35	32
8	60	47	38	32	58	46	38	32	44	37	32	43	36	31	41	35	31	29
9	56	43	35	29	55	42	34	29	41	34	29	39	33	28	38	32	28	26
10	53	40	32	26	51	39	31	26	38	31	26	37	30	26	35	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2533	2533	2533
5°	2527	2478	2481
10°	2509	2429	2427
15°	2486	2377	2368
20°	2459	2319	2291
25°	2428	2246	2186
30°	2381	2159	2054
35°	2326	2043	1933
40°	2256	1914	1864
45°	2154	1790	1814
50°	2026	1678	1752
55°	1886	1572	1641
60°	1717	1454	1504
65°	1533	1324	1346
70°	1353	1179	1205
75°	1167	1027	1073
80°	959	860	942
85°	725	709	799



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.7	3.3
10°-20°	274.0	9.6
20°-30°	410.6	14.3
30°-40°	479.8	16.7
40°-50°	485.1	16.9
50°-60°	428.2	14.9
60°-70°	318.0	11.1
70°-80°	195.0	6.8
80°-90°	89.8	3.1
90°-100°	37.6	1.3
100°-110°	23.0	0.8
110°-120°	15.2	0.5
120°-130°	8.6	0.3
130°-140°	3.9	0.1
140°-150°	1.1	0.0
150°-160°	0.3	0.0
160°-170°	0.2	0.0
170°-180°	0.1	0.0
0°-30°	780.3	27.2
0°-40°	1260.1	44.0
0°-60°	2173.4	75.8
0°-90°	2776.2	96.9
90°-120°	75.8	2.6
90°-150°	89.3	3.1
90°-180°	90.0	3.1
0°-180°	2866.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1011	1011	1011	1011	1011	
5°	1010	1008	1004	1007	1008	96
15°	974	972	969	972	972	275
25°	903	900	893	887	879	416
35°	793	790	767	743	738	496
45°	645	639	612	625	635	497
55°	469	462	469	500	505	419
65°	292	293	325	344	344	291
75°	148	159	190	206	210	158
85°	43	57	85	102	104	44
90°	21	33	53	64	66	12
95°	19	26	36	40	41	15
105°	15	17	23	25	26	16
115°	9	10	16	20	21	9
125°	5	4	10	14	16	4
135°	2	2	4	8	9	2
145°	1	1	1	3	4	1
155°	1	1	1	0	0	0
165°	1	1	1	0	0	0
175°	1	1	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°	1011.1	1011.1	1011.1	1011.1	1011.1
2.5°	1013.6	1011.1	1006.7	1009.6	1010.4
5°	1010.4	1008.0	1003.7	1006.7	1007.5
7.5°	1005.0	1002.6	998.4	1001.5	1002.6
10°	997.0	994.6	990.9	993.3	994.3
12.5°	986.9	984.8	980.7	984.2	984.7
15°	974.1	972.0	968.8	971.9	971.7
17.5°	960.5	957.5	954.4	956.0	955.4
20°	942.6	939.9	937.0	936.0	934.4
22.5°	923.5	921.3	917.3	913.5	910.1
25°	903.1	899.9	893.0	886.6	879.4
27.5°	878.4	876.5	867.1	853.6	845.3
30°	852.0	850.1	837.8	817.6	808.3
32.5°	823.5	821.1	803.9	781.3	771.4
35°	792.8	790.3	767.4	743.4	738.3
37.5°	760.2	755.9	729.5	709.1	709.5
40°	725.0	719.2	689.6	678.6	684.7
42.5°	685.6	680.8	650.6	651.4	659.7
45°	644.8	638.9	612.5	625.1	634.9
47.5°	603.2	595.7	574.9	595.7	608.0
50°	557.4	551.2	539.7	567.4	578.3
52.5°	514.4	508.6	502.9	534.2	542.4
55°	469.3	461.9	469.3	500.2	504.6
57.5°	424.2	417.6	432.2	462.2	465.0
60°	378.6	373.9	397.0	422.7	425.1
62.5°	333.6	333.3	360.8	382.7	383.8
65°	292.3	293.4	325.1	343.8	344.0
67.5°	253.0	257.1	289.0	305.3	307.5
70°	215.5	222.7	255.0	270.4	273.1
72.5°	180.2	189.8	220.5	236.6	240.5
75°	147.8	159.4	190.2	205.6	210.2
77.5°	117.1	130.1	160.2	176.6	182.6
80°	89.3	102.4	131.5	149.6	154.2
82.5°	62.7	78.2	106.7	125.1	128.8
85°	42.7	57.4	84.6	101.6	104.0
87.5°	27.0	42.7	67.2	81.1	83.2
90°	20.8	33.1	53.0	64.3	65.8
92.5°	19.5	28.5	42.7	50.1	51.5
95°	18.7	25.8	35.5	40.3	40.8
97.5°	18.1	23.4	31.2	34.2	34.2
100°	17.3	21.3	27.8	30.1	30.1
102.5°	16.3	19.2	25.1	27.4	27.8
105°	14.9	17.3	22.9	25.4	25.9
107.5°	13.4	15.4	21.1	23.8	24.5
110°	12.0	13.4	19.5	22.4	23.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	10.4	11.7	17.9	21.1	22.2
115°	9.0	9.8	16.3	19.8	21.0
117.5°	7.7	8.0	14.7	18.4	19.8
120°	6.6	6.4	13.1	17.1	18.6
122.5°	5.4	5.1	11.5	15.7	17.1
125°	4.6	3.8	9.8	14.1	15.7
127.5°	3.8	3.0	8.3	12.5	14.2
130°	3.2	2.6	6.7	11.0	12.6
132.5°	2.7	2.1	5.3	9.4	10.9
135°	2.2	1.8	4.0	8.0	9.3
137.5°	1.9	1.4	2.9	6.4	7.8
140°	1.6	1.3	1.8	5.0	6.2
142.5°	1.3	1.0	1.0	3.8	4.8
145°	1.1	0.8	0.6	2.7	3.5
147.5°	1.0	0.8	0.5	1.6	2.2
150°	0.8	0.6	0.5	0.6	1.3
152.5°	0.8	0.8	0.5	0.3	0.3
155°	0.8	0.8	0.6	0.3	0.2
157.5°	0.8	0.8	0.6	0.3	0.2
160°	0.8	0.8	0.6	0.3	0.2
162.5°	1.0	0.8	0.6	0.3	0.2
165°	1.0	0.8	0.6	0.3	0.2
167.5°	1.0	1.0	0.8	0.5	0.3
170°	1.0	1.0	0.8	0.5	0.3
172.5°	1.0	1.0	0.8	0.5	0.3
175°	1.0	1.0	0.8	0.5	0.5
177.5°	1.0	1.0	0.8	0.5	0.5
180°	0.8	0.8	0.8	0.8	0.8

(END OF REPORT)