

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: P397408

Luminaire Tested: **VRVT4LED-LD5-30-PC-UNV-LR63-CD3-WL-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P397408
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-367-16)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: VRVT4LED-LD5-30-PC-UNV-LR63-CD3-WL-U
Description:
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

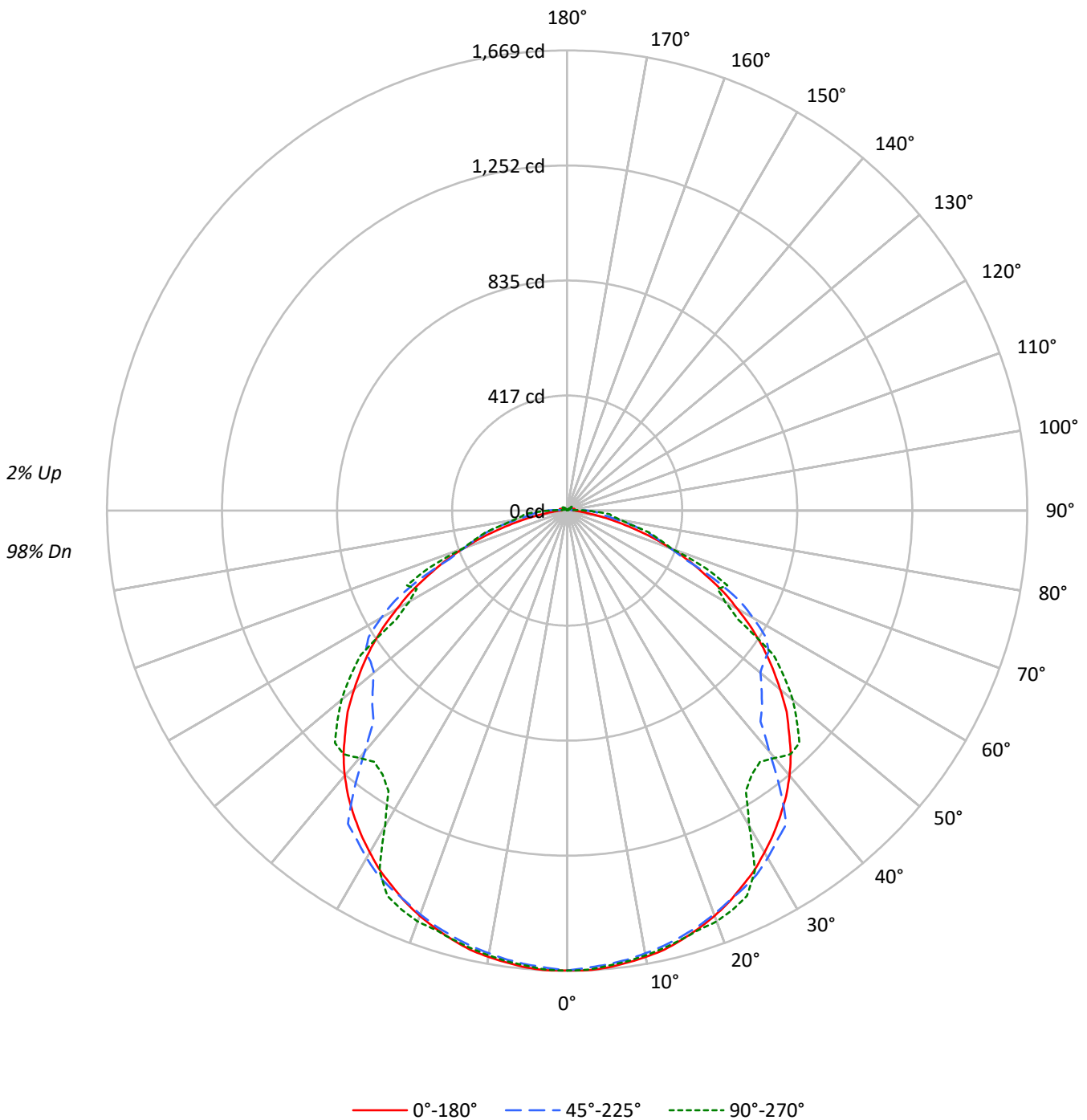
Lumens per Lamp: N/A
Luminaire Lumens: 4791.8 lumens
Efficiency: N/A
Efficacy: 8.0 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.17 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 1.04' x L: 4.12' x H: 0.25')
CIE Type: Direct

Input Watts (W): 601.9
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	98
1	108	103	99	95	105	101	97	94	96	93	90	92	90	87	88	86	84	82
2	99	90	83	78	96	88	82	77	84	79	75	81	77	73	78	74	71	69
3	90	79	71	65	87	78	70	64	74	68	63	71	66	61	69	64	60	58
4	82	70	61	55	80	69	61	54	66	59	53	64	57	52	61	56	52	49
5	76	63	54	47	73	62	53	47	59	52	46	57	51	45	55	49	45	43
6	70	56	48	41	68	55	47	41	53	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	29	39	33	28	26
10	53	40	32	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4179	4179	4179
5°	4163	4081	4083
10°	4138	3998	3998
15°	4111	3925	3922
20°	4080	3856	3888
25°	4039	3803	3833
30°	4001	3748	3356
35°	3957	3690	3058
40°	3905	3166	3189
45°	3801	2919	3403
50°	3663	2845	3238
55°	3490	2990	2973
60°	3231	2856	2340
65°	2907	2406	2510
70°	2508	1836	1780
75°	1934	1612	1567
80°	1297	1139	1206
85°	900	1004	1189



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.6	3.3
10°-20°	453.6	9.5
20°-30°	696.7	14.5
30°-40°	809.2	16.9
40°-50°	854.9	17.8
50°-60°	781.7	16.3
60°-70°	548.8	11.5
70°-80°	293.5	6.1
80°-90°	120.4	2.5
90°-100°	30.6	0.6
100°-110°	15.3	0.3
110°-120°	10.8	0.2
120°-130°	10.7	0.2
130°-140°	5.5	0.1
140°-150°	1.5	0.0
150°-160°	0.5	0.0
160°-170°	0.3	0.0
170°-180°	0.1	0.0
0°-30°	1307.9	27.3
0°-40°	2117.1	44.2
0°-60°	3753.6	78.3
0°-90°	4716.3	98.4
90°-120°	56.8	1.2
90°-150°	74.5	1.6
90°-180°	76.0	1.6
0°-180°	4791.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1668	1668	1668	1668	1668	
5°	1664	1662	1653	1656	1658	158
15°	1611	1605	1600	1607	1609	455
25°	1503	1501	1512	1532	1542	693
35°	1349	1350	1386	1163	1168	844
45°	1138	1153	999	1136	1191	878
55°	868	859	892	930	914	774
65°	554	496	591	553	641	551
75°	245	249	299	285	307	265
85°	53	74	120	150	155	57
90°	23	48	72	69	64	14
95°	22	25	23	19	17	19
105°	24	18	12	10	10	25
115°	13	13	11	7	7	13
125°	6	5	17	15	20	6
135°	3	2	4	13	8	2
145°	2	1	1	5	4	1
155°	1	1	1	1	0	1
165°	1	1	1	1	1	0
175°	1	1	2	1	1	0
180°	1	1	1	1	1	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1668.3	1668.3	1668.3	1668.3	1668.3
2.5°	1669.1	1667.3	1660.1	1664.0	1667.3
5°	1664.3	1661.6	1652.9	1656.1	1657.9
7.5°	1654.7	1653.1	1643.5	1647.3	1649.7
10°	1644.1	1639.8	1630.7	1636.9	1638.2
12.5°	1631.0	1623.3	1616.9	1623.0	1624.9
15°	1611.0	1604.9	1599.8	1607.3	1609.4
17.5°	1588.8	1581.7	1580.6	1586.9	1593.4
20°	1564.1	1557.4	1558.4	1573.9	1585.7
22.5°	1536.0	1530.2	1533.1	1559.3	1567.3
25°	1502.7	1500.6	1512.1	1532.3	1541.9
27.5°	1471.0	1466.7	1488.9	1511.5	1473.9
30°	1431.5	1430.7	1454.9	1407.5	1320.8
32.5°	1392.5	1394.5	1417.9	1274.2	1205.7
35°	1348.8	1350.2	1386.2	1162.7	1168.0
37.5°	1304.6	1312.9	1267.0	1128.0	1148.8
40°	1254.9	1274.4	1140.9	1109.9	1171.5
42.5°	1200.5	1215.0	1038.1	1111.8	1198.7
45°	1137.9	1153.3	999.0	1136.1	1191.2
47.5°	1079.5	1090.9	956.1	1133.7	1129.9
50°	1007.8	1031.5	914.9	1063.3	1068.5
52.5°	939.0	962.9	898.7	1000.1	993.6
55°	868.3	859.0	892.5	929.7	913.9
57.5°	793.6	735.8	853.6	834.7	735.0
60°	712.5	625.3	780.0	661.6	661.3
62.5°	639.0	557.8	701.6	602.9	615.2
65°	554.2	495.7	591.0	552.6	641.4
67.5°	480.3	428.6	463.5	565.0	542.1
70°	399.5	363.2	397.1	442.4	403.2
72.5°	321.8	301.8	344.6	347.2	351.7
75°	245.0	249.0	298.6	285.4	307.0
77.5°	177.3	190.1	238.4	245.0	235.7
80°	120.8	148.3	174.2	182.1	197.4
82.5°	78.9	100.3	140.0	158.6	167.7
85°	53.0	74.1	119.8	150.2	154.9
87.5°	35.5	63.7	100.3	113.8	105.9
90°	23.0	48.0	72.3	68.8	63.7
92.5°	18.7	36.3	41.9	37.6	33.3
95°	21.6	25.0	22.7	18.9	17.4
97.5°	26.2	17.3	16.2	16.8	17.1
100°	27.5	17.1	13.8	13.6	13.8
102.5°	26.6	18.1	12.6	12.2	11.7
105°	24.2	17.8	12.3	10.4	9.8
107.5°	21.1	16.6	12.0	10.2	9.3
110°	18.1	15.4	11.0	10.1	9.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	15.2	14.4	10.1	8.3	8.5
115°	12.6	12.8	11.0	6.9	6.7
117.5°	10.7	11.2	15.8	6.6	5.6
120°	9.1	9.1	15.4	12.0	7.2
122.5°	7.5	7.2	14.9	19.7	16.0
125°	6.4	5.4	16.6	15.0	19.7
127.5°	5.3	4.3	9.3	17.8	13.9
130°	4.5	3.5	10.7	20.2	21.8
132.5°	3.7	2.9	9.0	8.6	15.4
135°	3.0	2.4	4.3	12.8	7.5
137.5°	2.4	2.1	3.0	12.8	14.6
140°	2.1	1.8	3.2	4.2	9.3
142.5°	1.8	1.4	2.1	3.4	3.2
145°	1.6	1.3	1.3	4.6	3.7
147.5°	1.3	1.3	1.1	3.7	5.0
150°	1.3	1.1	1.1	1.4	2.9
152.5°	1.1	1.1	1.1	0.8	0.8
155°	1.3	1.3	1.3	0.8	0.5
157.5°	1.3	1.3	1.3	0.8	0.5
160°	1.3	1.3	1.3	1.0	0.6
162.5°	1.3	1.3	1.4	1.0	0.6
165°	1.4	1.4	1.4	1.1	0.6
167.5°	1.4	1.4	1.4	1.1	0.8
170°	1.4	1.4	1.4	1.1	0.8
172.5°	1.4	1.4	1.6	1.1	1.0
175°	1.4	1.4	1.6	1.3	1.0
177.5°	1.4	1.4	1.6	1.3	1.1
180°	1.4	1.4	1.4	1.4	1.4

(END OF REPORT)