

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: P397228

Luminaire Tested: **2VRVT3-LD5-2-G-UNV-LR63-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P397228
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1709-268-12)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: 2VRVT3-LD5-2-G-UNV-LR63-CD1-U
Description:
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

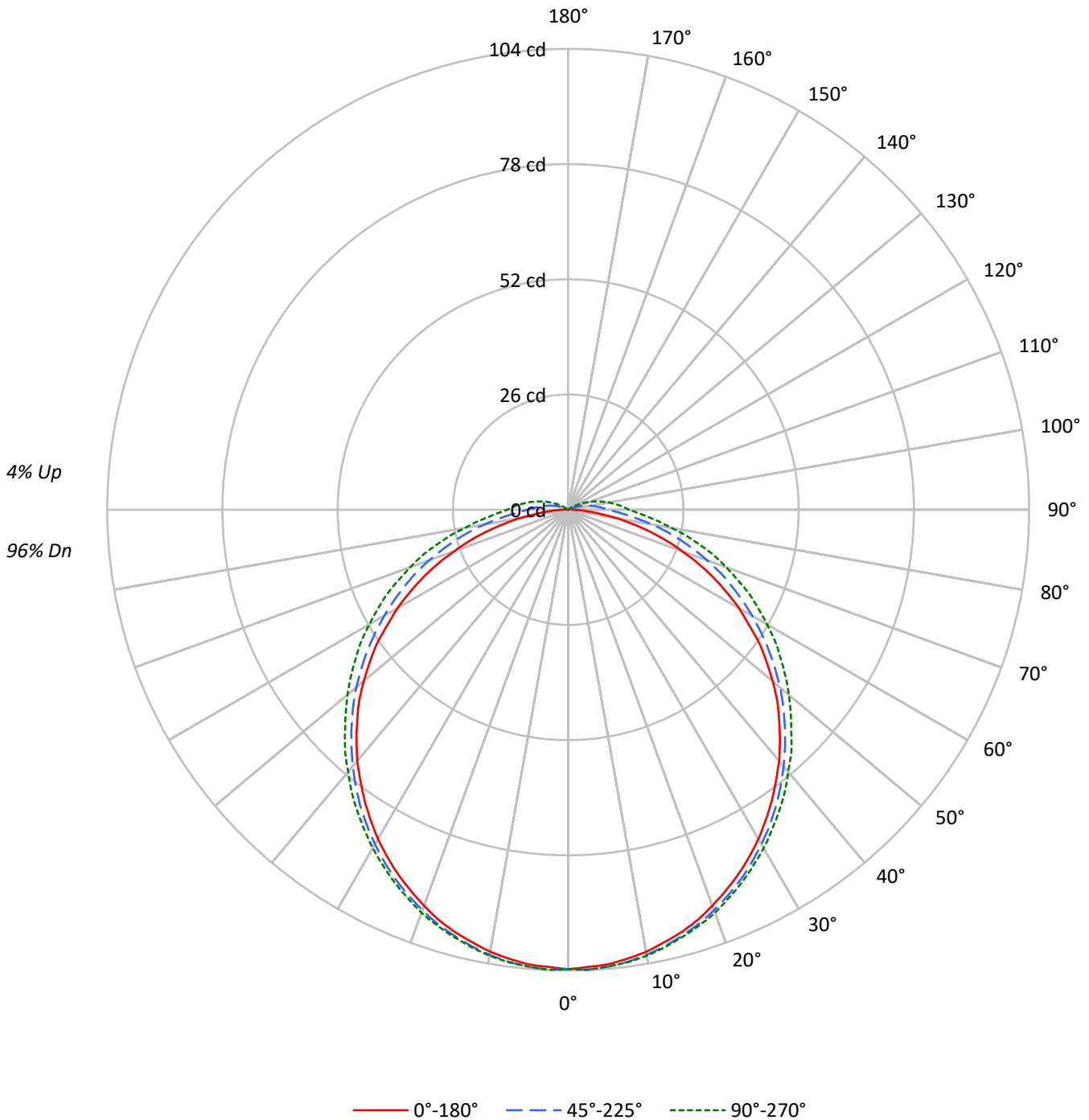
Lumens per Lamp: N/A
Luminaire Lumens: 327.7 lumens
Efficiency: N/A
Efficacy: 8.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 2' x H: 1.04')
CIE Type: Direct

Input Watts (W): 40.7
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	96
1	107	101	97	92	103	99	94	90	94	90	87	89	86	83	85	82	80	78
2	96	88	80	74	93	85	79	73	81	76	71	77	73	69	74	70	66	64
3	88	77	68	61	85	75	67	60	71	64	59	68	62	57	65	60	56	53
4	80	68	59	52	77	66	58	51	63	56	50	60	54	49	58	52	48	45
5	74	60	51	44	71	59	50	44	56	49	43	54	47	42	52	46	41	39
6	68	54	45	38	66	53	44	38	51	43	37	49	42	37	47	41	36	34
7	63	49	40	34	61	48	40	34	46	39	33	44	38	33	43	37	32	30
8	59	45	36	30	57	44	36	30	42	35	30	41	34	29	39	33	29	27
9	55	41	33	27	53	40	32	27	39	32	27	37	31	26	36	30	26	24
10	51	38	30	24	50	37	30	24	36	29	24	35	28	24	34	28	23	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1339	1339	1339
5°	1277	1131	1101
10°	1217	972	930
15°	1158	846	799
20°	1099	744	697
25°	1041	658	611
30°	984	582	538
35°	926	516	476
40°	868	457	420
45°	808	402	372
50°	746	354	328
55°	681	307	288
60°	604	263	251
65°	521	222	217
70°	424	184	182
75°	324	145	149
80°	211	108	116
85°	96	76	89



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.8	3.0
10°-20°	28.0	8.6
20°-30°	42.4	12.9
30°-40°	51.1	15.6
40°-50°	53.4	16.3
50°-60°	49.5	15.1
60°-70°	40.2	12.3
70°-80°	27.0	8.2
80°-90°	13.8	4.2
90°-100°	7.2	2.2
100°-110°	3.7	1.1
110°-120°	1.4	0.4
120°-130°	0.2	0.1
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	80.2	24.5
0°-40°	131.3	40.1
0°-60°	234.2	71.5
0°-90°	315.2	96.2
90°-120°	12.3	3.7
90°-150°	12.5	3.8
90°-180°	12.0	3.7
0°-180°	327.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	104	104	104	104	104	
5°	103	103	104	104	104	10
15°	99	99	100	100	100	28
25°	91	91	92	93	93	42
35°	80	81	82	82	83	50
45°	67	68	69	71	71	52
55°	53	53	55	58	58	47
65°	36	37	41	44	45	36
75°	19	22	26	30	31	20
85°	4	8	13	17	18	5
90°	1	5	9	12	14	1
95°	1	3	7	10	12	1
105°	0	1	3	6	7	0
115°	0	0	1	3	3	0
125°	0	0	0	0	1	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	103.7	103.7	103.7	103.7	103.7
2.5°	103.3	103.4	103.9	103.9	103.9
5°	103.0	103.1	103.5	103.6	103.5
7.5°	102.2	102.5	102.9	103.0	103.0
10°	101.3	101.5	102.0	102.2	102.2
12.5°	100.0	100.3	100.9	101.0	101.1
15°	98.7	99.0	99.5	99.8	99.8
17.5°	97.1	97.3	98.0	98.4	98.4
20°	95.1	95.5	96.2	96.7	96.8
22.5°	93.0	93.4	94.2	94.7	94.8
25°	90.8	91.2	92.1	92.6	92.8
27.5°	88.4	88.8	89.7	90.3	90.5
30°	85.8	86.2	87.2	88.0	88.2
32.5°	83.0	83.5	84.5	85.3	85.6
35°	80.1	80.6	81.7	82.5	83.0
37.5°	77.0	77.5	78.7	79.8	80.3
40°	74.0	74.5	75.6	76.7	77.2
42.5°	70.7	71.2	72.4	73.8	74.5
45°	67.3	67.8	69.1	70.6	71.2
47.5°	64.0	64.4	65.8	67.3	68.1
50°	60.2	60.6	62.4	64.2	65.0
52.5°	56.4	56.9	58.8	61.0	61.8
55°	52.7	53.2	55.2	57.6	58.5
57.5°	48.3	49.4	51.6	54.2	55.4
60°	44.5	45.4	47.9	50.7	51.8
62.5°	40.2	41.3	44.3	47.3	48.4
65°	36.1	37.4	40.6	43.9	45.1
67.5°	31.8	33.2	37.1	40.4	41.4
70°	27.3	29.3	33.4	36.7	37.9
72.5°	23.3	25.4	29.6	33.0	34.6
75°	19.1	21.6	26.1	29.5	30.8
77.5°	14.9	17.8	22.7	25.9	27.4
80°	11.2	14.4	19.1	22.5	23.7
82.5°	7.4	11.2	15.9	19.4	20.7
85°	4.5	8.3	13.0	16.6	17.8
87.5°	2.3	6.1	10.8	14.2	15.6
90°	1.3	4.6	9.1	12.5	13.7
92.5°	1.1	3.6	8.0	11.3	12.6
95°	0.8	2.7	6.9	10.3	11.5
97.5°	0.6	1.9	6.0	9.2	10.4
100°	0.6	1.4	5.0	8.2	9.4
102.5°	0.5	0.9	4.2	7.1	8.2
105°	0.4	0.6	3.4	6.1	7.2
107.5°	0.3	0.3	2.6	5.2	6.1
110°	0.2	0.2	1.9	4.2	5.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.2	0.2	1.3	3.4	4.2
115°	0.2	0.2	0.8	2.6	3.3
117.5°	0.2	0.2	0.4	1.9	2.5
120°	0.1	0.1	0.2	1.2	1.8
122.5°	0.1	0.1	0.1	0.6	1.1
125°	0.1	0.0	0.0	0.2	0.6
127.5°	0.0	0.0	0.0	0.0	0.2
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.1	0.0	0.0	0.0	0.0
135°	0.1	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)