

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: P397258

Luminaire Tested: **4VRVT2-LD5-4-DR100-UNV-LR63-CD1-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P397258
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-355-17)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: 4VRVT2-LD5-4-DR100-UNV-LR63-CD1-WL-U
Description:
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 663.1 lumens
Efficiency: N/A
Efficacy: 8.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.22 / 1.32
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 4.17' x H: 0.17')
CIE Type: Direct

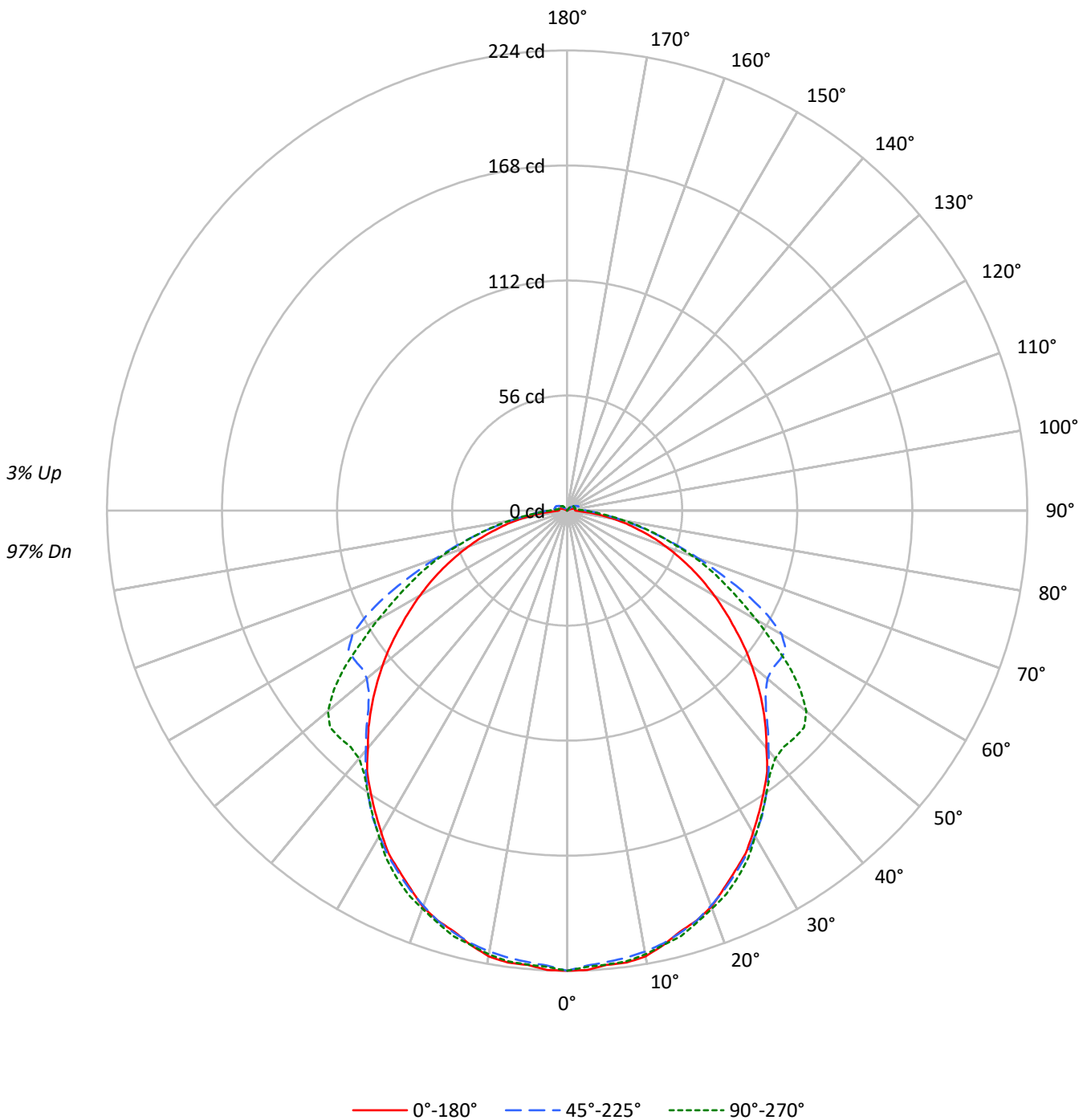
Input Watts (W): 77.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	100	96	92	95	92	89	91	88	86	87	84	82	80
2	98	89	82	76	95	87	80	75	83	77	73	79	75	71	76	72	69	66
3	89	78	70	63	86	76	68	62	73	66	61	69	64	59	67	62	58	55
4	81	69	60	53	79	67	59	53	64	57	51	62	55	50	59	54	49	47
5	74	61	52	46	72	60	52	45	58	50	44	55	49	44	53	47	43	41
6	69	55	46	40	67	54	46	39	52	44	39	50	43	38	48	42	38	35
7	64	50	41	35	62	49	41	35	47	40	34	46	39	34	44	38	33	31
8	59	46	37	31	58	45	37	31	43	36	31	42	35	30	40	34	30	28
9	55	42	34	28	54	41	33	28	40	33	28	38	32	27	37	31	27	25
10	52	39	31	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1157	1157	1157
5°	1147	1118	1118
10°	1148	1093	1087
15°	1123	1063	1053
20°	1112	1027	1011
25°	1083	987	971
30°	1055	946	916
35°	1024	899	864
40°	985	842	830
45°	945	791	858
50°	900	778	874
55°	847	828	804
60°	799	855	697
65°	751	750	605
70°	697	593	514
75°	627	455	404
80°	548	329	289
85°	403	232	190



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.1	3.2
10°-20°	60.2	9.1
20°-30°	90.0	13.6
30°-40°	105.4	15.9
40°-50°	110.1	16.6
50°-60°	106.9	16.1
60°-70°	83.2	12.5
70°-80°	49.0	7.4
80°-90°	17.7	2.7
90°-100°	6.7	1.0
100°-110°	5.0	0.8
110°-120°	3.9	0.6
120°-130°	2.5	0.4
130°-140°	1.3	0.2
140°-150°	0.2	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	171.2	25.8
0°-40°	276.6	41.7
0°-60°	493.6	74.4
0°-90°	643.5	97.0
90°-120°	15.6	2.4
90°-150°	19.6	3.0
90°-180°	20.0	3.0
0°-180°	663.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	224	224	224	224	224	
5°	222	221	221	222	222	21
15°	212	213	213	215	214	60
25°	194	195	194	197	197	89
35°	167	168	169	169	169	104
45°	134	136	137	150	156	104
55°	99	102	126	136	132	89
65°	67	79	96	85	85	66
75°	36	54	45	45	45	39
85°	10	16	16	16	15	11
90°	4	8	9	9	8	2
95°	4	6	7	6	5	3
105°	3	5	6	5	4	3
115°	2	3	5	4	4	2
125°	1	1	4	4	4	1
135°	0	0	2	3	3	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°	224.0	224.0	224.0	224.0	224.0
2.5°	223.8	222.9	221.7	223.0	222.3
5°	222.0	221.4	220.6	222.1	221.8
7.5°	221.9	220.5	219.5	221.4	221.3
10°	220.3	218.5	218.0	220.0	219.3
12.5°	216.6	215.7	215.8	218.1	216.6
15°	212.2	212.8	212.8	214.8	214.4
17.5°	209.3	209.3	209.4	210.7	210.2
20°	205.2	205.0	204.7	206.8	206.2
22.5°	199.2	200.1	199.8	202.7	202.2
25°	193.5	195.1	194.4	196.9	196.8
27.5°	188.2	189.1	189.0	191.0	190.8
30°	181.0	182.4	182.8	184.1	183.1
32.5°	173.9	175.3	176.5	176.5	176.0
35°	166.9	168.0	168.9	169.0	168.9
37.5°	160.0	160.1	161.0	161.0	162.0
40°	150.9	152.2	152.5	155.0	157.5
42.5°	143.1	143.9	144.6	150.9	156.0
45°	134.5	135.8	136.8	149.6	156.5
47.5°	126.0	127.1	130.9	150.1	156.4
50°	117.3	118.8	127.3	150.6	152.0
52.5°	108.6	110.6	126.0	145.9	143.1
55°	99.4	102.5	126.5	136.3	131.7
57.5°	91.0	95.5	126.2	123.7	118.1
60°	82.7	89.2	120.6	109.4	106.4
62.5°	74.6	83.8	109.8	96.5	94.9
65°	66.7	79.0	96.1	84.8	84.8
67.5°	58.8	75.2	81.1	74.3	75.4
70°	51.2	70.5	67.7	63.8	65.2
72.5°	43.6	63.5	55.9	54.5	54.8
75°	36.1	53.7	45.2	44.9	45.4
77.5°	29.6	42.8	35.5	36.6	36.8
80°	22.6	32.2	27.6	28.5	28.1
82.5°	15.8	23.1	20.8	21.5	21.3
85°	9.9	16.0	15.7	15.6	15.4
87.5°	5.7	10.9	11.6	11.6	11.2
90°	4.0	8.3	9.3	8.8	8.5
92.5°	4.0	7.1	7.7	6.9	6.5
95°	4.1	6.1	6.7	5.9	5.3
97.5°	4.1	5.7	6.3	5.2	4.7
100°	4.0	5.2	6.1	4.8	4.3
102.5°	3.6	5.0	6.0	4.7	4.1
105°	3.3	4.7	5.9	4.6	4.0
107.5°	3.0	4.4	5.9	4.6	3.9
110°	2.6	4.1	5.8	4.6	3.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.1	3.6	5.6	4.5	3.9
115°	1.7	3.2	5.2	4.5	3.9
117.5°	1.4	2.7	4.9	4.4	3.9
120°	1.2	2.1	4.6	4.3	3.7
122.5°	0.8	1.7	4.1	4.1	3.7
125°	0.8	1.3	3.6	4.0	3.6
127.5°	0.5	0.8	3.2	3.6	3.5
130°	0.4	0.5	2.7	3.4	3.4
132.5°	0.3	0.3	2.2	3.1	3.2
135°	0.3	0.2	1.8	2.8	2.9
137.5°	0.2	0.2	1.4	2.4	2.7
140°	0.2	0.2	1.1	2.0	2.2
142.5°	0.2	0.2	0.8	1.6	1.9
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)