

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: P397273

Luminaire Tested: **4VRVT2-LD5-6-DR100-UNV-LR63-CD1-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P397273
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-LD5-6-DR100-UNV-LR63-CD1-WL-U
Description:
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 992.3 lumens
Efficiency: N/A
Efficacy: 7.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.21 / 1.32
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 4.17' x H: 0.17')
CIE Type: Direct

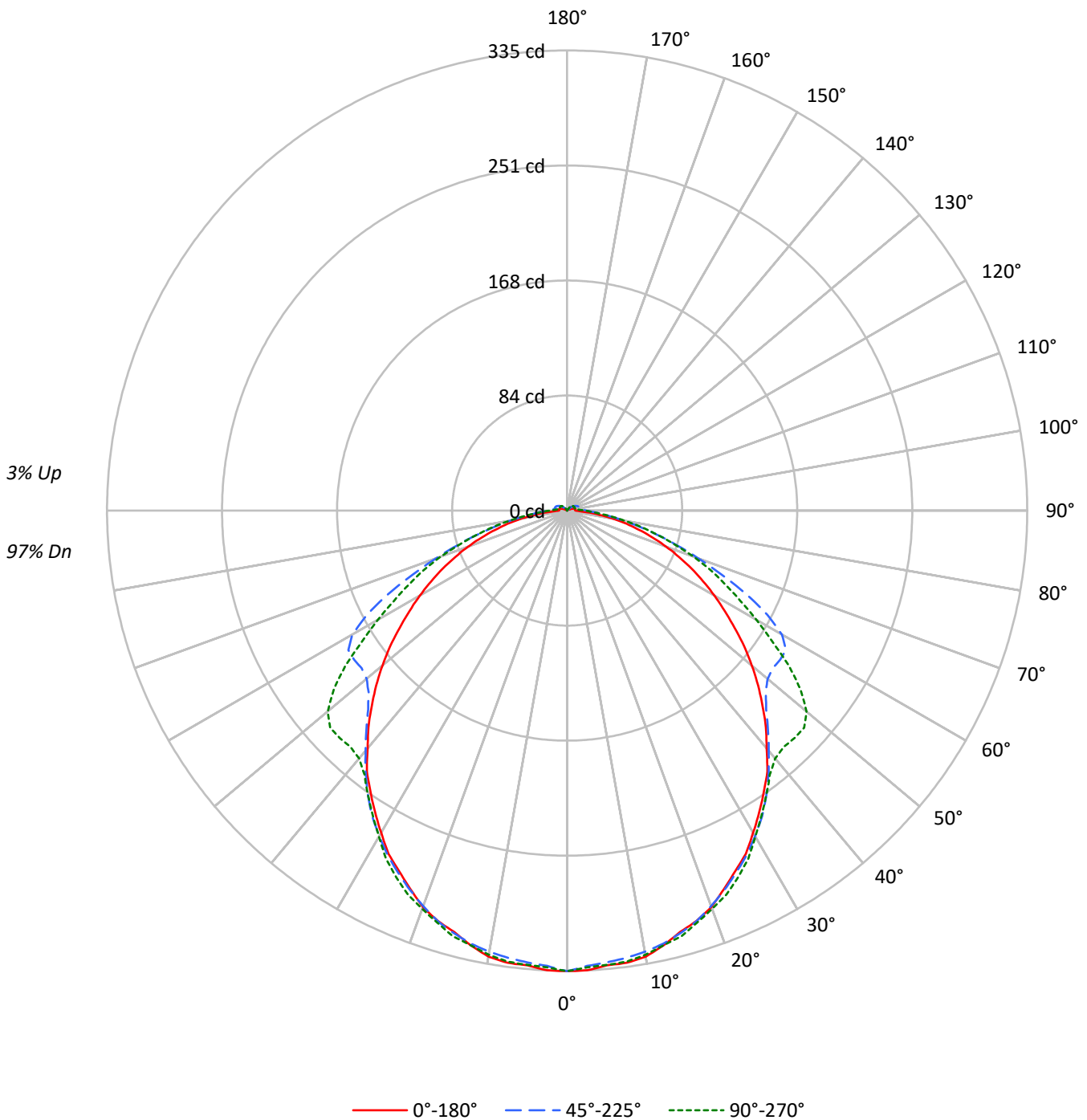
Input Watts (W): 131.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1732	1732	1732
5°	1717	1674	1673
10°	1718	1635	1627
15°	1681	1591	1576
20°	1665	1537	1513
25°	1621	1477	1453
30°	1579	1416	1371
35°	1532	1346	1293
40°	1474	1261	1242
45°	1414	1184	1283
50°	1346	1165	1309
55°	1268	1238	1203
60°	1196	1280	1043
65°	1124	1123	905
70°	1043	887	770
75°	940	681	605
80°	820	492	433
85°	606	347	283



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.6	3.2
10°-20°	90.1	9.1
20°-30°	134.6	13.6
30°-40°	157.7	15.9
40°-50°	164.7	16.6
50°-60°	160.1	16.1
60°-70°	124.5	12.5
70°-80°	73.3	7.4
80°-90°	26.5	2.7
90°-100°	10.0	1.0
100°-110°	7.5	0.8
110°-120°	5.8	0.6
120°-130°	3.7	0.4
130°-140°	1.9	0.2
140°-150°	0.4	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	256.3	25.8
0°-40°	414.0	41.7
0°-60°	738.7	74.4
0°-90°	963.0	97.0
90°-120°	23.3	2.4
90°-150°	29.3	3.0
90°-180°	29.0	2.9
0°-180°	992.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	335	335	335	335	335	
5°	332	331	330	332	332	32
15°	318	318	318	321	321	90
25°	290	292	291	295	294	134
35°	250	252	253	253	253	156
45°	201	203	205	224	234	155
55°	149	153	189	204	197	133
65°	100	118	144	127	127	99
75°	54	80	68	67	68	58
85°	15	24	24	23	23	16
90°	6	12	14	13	13	4
95°	6	9	10	9	8	5
105°	5	7	9	7	6	5
115°	3	5	8	7	6	3
125°	1	2	5	6	5	1
135°	0	0	3	4	4	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°	335.3	335.3	335.3	335.3	335.3
2.5°	335.0	333.6	331.8	333.7	332.8
5°	332.3	331.3	330.2	332.4	332.0
7.5°	332.1	330.0	328.4	331.3	331.2
10°	329.7	327.0	326.2	329.2	328.3
12.5°	324.1	322.8	323.0	326.4	324.1
15°	317.6	318.5	318.5	321.4	320.9
17.5°	313.2	313.2	313.4	315.3	314.5
20°	307.2	306.8	306.4	309.6	308.6
22.5°	298.2	299.5	299.0	303.3	302.7
25°	289.6	292.0	291.0	294.7	294.5
27.5°	281.7	283.0	282.8	285.9	285.6
30°	270.8	272.9	273.6	275.5	274.0
32.5°	260.3	262.4	264.1	264.1	263.3
35°	249.7	251.5	252.8	252.9	252.8
37.5°	239.5	239.6	240.9	240.9	242.4
40°	225.9	227.8	228.3	232.0	235.6
42.5°	214.2	215.3	216.4	225.9	233.4
45°	201.2	203.2	204.8	223.8	234.2
47.5°	188.6	190.2	196.0	224.6	234.0
50°	175.5	177.7	190.5	225.4	227.5
52.5°	162.5	165.6	188.6	218.4	214.2
55°	148.8	153.4	189.3	204.0	197.1
57.5°	136.1	142.9	188.9	185.1	176.8
60°	123.8	133.4	180.5	163.7	159.2
62.5°	111.7	125.4	164.3	144.5	142.1
65°	99.8	118.2	143.8	126.9	126.9
67.5°	88.0	112.5	121.4	111.2	112.8
70°	76.6	105.6	101.3	95.5	97.6
72.5°	65.3	95.0	83.7	81.6	82.1
75°	54.1	80.3	67.7	67.2	68.0
77.5°	44.3	64.0	53.1	54.7	55.0
80°	33.8	48.2	41.3	42.7	42.1
82.5°	23.7	34.6	31.2	32.2	31.8
85°	14.9	24.0	23.5	23.4	23.0
87.5°	8.5	16.3	17.4	17.4	16.8
90°	5.9	12.5	13.9	13.1	12.8
92.5°	5.9	10.6	11.5	10.4	9.8
95°	6.1	9.1	10.1	8.8	8.0
97.5°	6.1	8.5	9.4	7.8	7.0
100°	5.9	7.8	9.1	7.2	6.4
102.5°	5.4	7.5	9.0	7.0	6.1
105°	5.0	7.0	8.8	6.9	5.9
107.5°	4.5	6.6	8.8	6.9	5.8
110°	3.8	6.1	8.6	6.9	5.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	3.2	5.4	8.3	6.7	5.8
115°	2.6	4.8	7.8	6.7	5.8
117.5°	2.1	4.0	7.4	6.6	5.8
120°	1.8	3.2	6.9	6.4	5.6
122.5°	1.3	2.6	6.1	6.1	5.6
125°	1.1	1.9	5.4	5.9	5.4
127.5°	0.8	1.3	4.8	5.4	5.3
130°	0.6	0.8	4.0	5.1	5.1
132.5°	0.5	0.5	3.4	4.6	4.8
135°	0.5	0.3	2.7	4.2	4.3
137.5°	0.3	0.3	2.1	3.5	4.0
140°	0.3	0.3	1.6	3.0	3.4
142.5°	0.3	0.3	1.1	2.4	2.9
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)