

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: P397357

Luminaire Tested: **8VRVT2-LD5-9-DR100-UNV-LR63-CD1-WL-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P397357  
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: 8VRVT2-LD5-9-DR100-UNV-LR63-CD1-WL-U  
Description:  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1449.7 lumens  
Efficiency: N/A  
Efficacy: 8.5 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.21 / 1.32  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 8.33' x H: 0.17')  
CIE Type: Direct

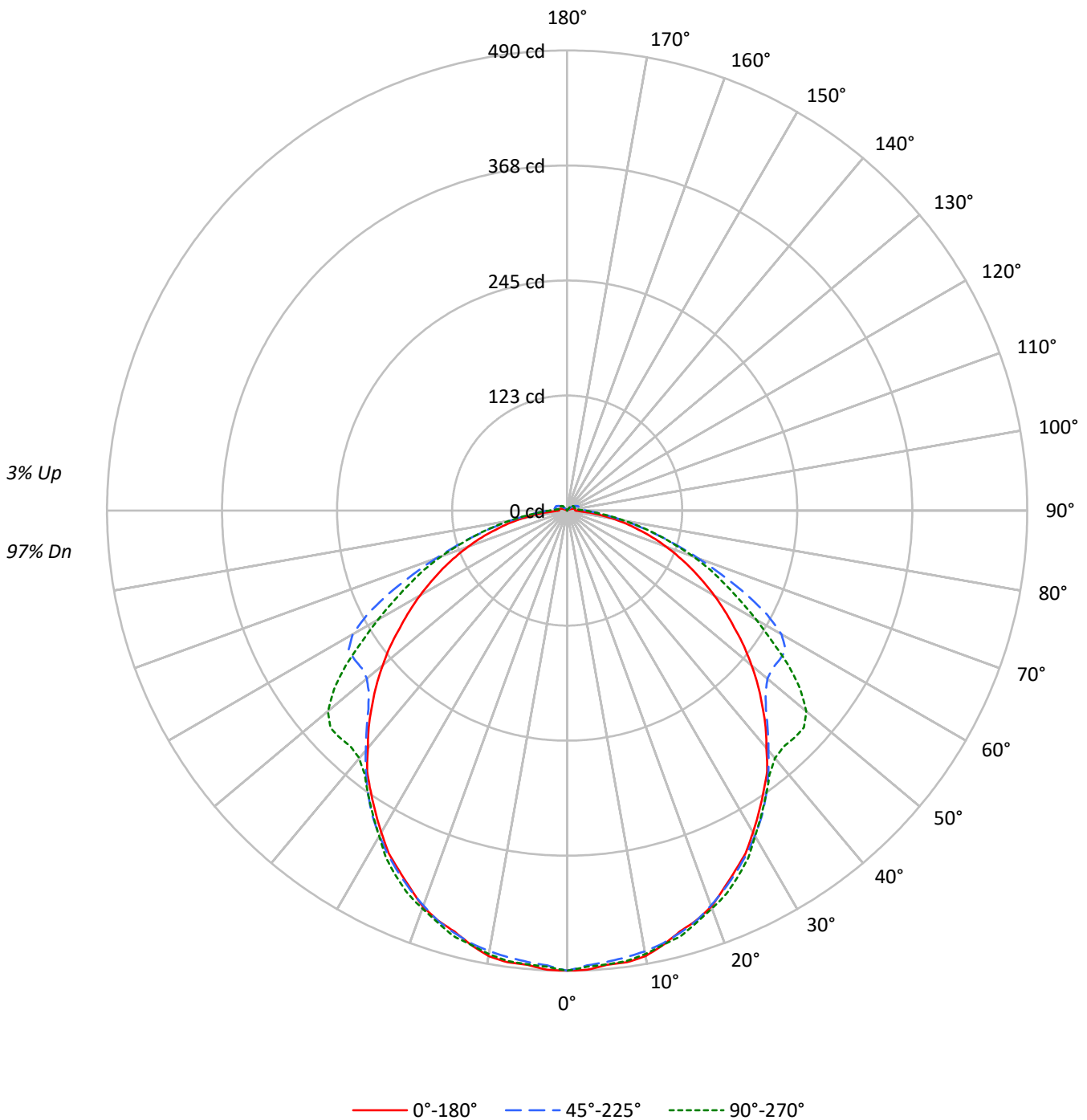
Input Watts (W): 170.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	1266	1266	1266
5°	1257	1224	1222
10°	1259	1197	1188
15°	1234	1167	1151
20°	1225	1128	1105
25°	1195	1086	1062
30°	1167	1042	1002
35°	1135	991	944
40°	1094	930	907
45°	1053	875	938
50°	1006	862	956
55°	952	918	879
60°	903	951	762
65°	855	836	661
70°	802	663	562
75°	734	511	442
80°	659	371	317
85°	524	264	208



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	46.1	3.2
10°-20°	131.6	9.1
20°-30°	196.7	13.6
30°-40°	230.4	15.9
40°-50°	240.7	16.6
50°-60°	233.8	16.1
60°-70°	181.9	12.5
70°-80°	107.0	7.4
80°-90°	38.7	2.7
90°-100°	14.7	1.0
100°-110°	10.9	0.8
110°-120°	8.5	0.6
120°-130°	5.4	0.4
130°-140°	2.8	0.2
140°-150°	0.5	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	374.4	25.8
0°-40°	604.8	41.7
0°-60°	1079.3	74.4
0°-90°	1406.9	97.0
90°-120°	34.1	2.4
90°-150°	42.8	3.0
90°-180°	43.0	3.0
0°-180°	1449.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	490	490	490	490	490	
5°	486	484	482	486	485	46
15°	464	465	465	470	469	131
25°	423	427	425	430	430	195
35°	365	367	369	370	369	228
45°	294	297	299	327	342	227
55°	217	224	276	298	288	195
65°	146	173	210	185	185	144
75°	79	117	99	98	99	84
85°	22	35	34	34	34	24
90°	9	18	20	19	19	5
95°	9	13	15	13	12	7
105°	7	10	13	10	9	8
115°	4	7	12	10	8	4
125°	2	3	8	9	8	1
135°	1	0	4	6	6	1
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°	489.9	489.9	489.9	489.9	489.9
2.5°	489.4	487.3	484.8	487.6	486.2
5°	485.5	484.0	482.4	485.7	485.0
7.5°	485.2	482.2	479.8	484.0	483.8
10°	481.7	477.7	476.6	481.0	479.6
12.5°	473.5	471.7	471.9	476.8	473.5
15°	464.0	465.4	465.4	469.6	468.9
17.5°	457.6	457.6	457.9	460.7	459.5
20°	448.8	448.3	447.6	452.3	450.9
22.5°	435.7	437.5	436.8	443.2	442.2
25°	423.1	426.6	425.2	430.5	430.3
27.5°	411.6	413.5	413.2	417.7	417.2
30°	395.7	398.7	399.7	402.5	400.4
32.5°	380.3	383.3	385.9	385.9	384.7
35°	364.8	367.4	369.3	369.5	369.3
37.5°	349.9	350.1	352.0	352.0	354.1
40°	330.0	332.8	333.5	338.9	344.3
42.5°	313.0	314.6	316.2	330.0	341.0
45°	294.0	296.8	299.2	327.0	342.2
47.5°	275.6	277.9	286.3	328.2	342.0
50°	256.4	259.7	278.4	329.3	332.4
52.5°	237.5	241.9	275.6	319.0	313.0
55°	217.4	224.1	276.5	298.0	288.0
57.5°	198.9	208.7	276.0	270.4	258.3
60°	180.9	194.9	263.6	239.1	232.6
62.5°	163.1	183.2	240.0	211.1	207.6
65°	145.8	172.7	210.1	185.3	185.3
67.5°	128.5	164.3	177.4	162.4	164.8
70°	112.0	154.3	148.0	139.5	142.6
72.5°	95.4	138.8	122.2	119.2	119.9
75°	79.0	117.3	98.9	98.2	99.3
77.5°	64.7	93.5	77.6	79.9	80.4
80°	49.3	70.4	60.3	62.4	61.5
82.5°	34.6	50.5	45.6	47.0	46.5
85°	21.7	35.1	34.4	34.1	33.7
87.5°	12.4	23.8	25.5	25.5	24.5
90°	8.6	18.2	20.3	19.2	18.7
92.5°	8.6	15.4	16.8	15.2	14.3
95°	8.9	13.3	14.7	12.8	11.7
97.5°	8.9	12.4	13.8	11.5	10.3
100°	8.6	11.5	13.3	10.5	9.3
102.5°	8.0	11.0	13.1	10.3	8.9
105°	7.2	10.3	12.8	10.0	8.6
107.5°	6.5	9.6	12.8	10.0	8.4
110°	5.6	8.9	12.6	10.0	8.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	4.7	8.0	12.2	9.8	8.4
115°	3.7	7.0	11.5	9.8	8.4
117.5°	3.0	5.8	10.8	9.6	8.4
120°	2.6	4.7	10.0	9.3	8.2
122.5°	1.9	3.7	8.9	8.9	8.2
125°	1.6	2.8	8.0	8.6	8.0
127.5°	1.2	1.9	7.0	8.0	7.7
130°	0.9	1.2	5.8	7.5	7.5
132.5°	0.7	0.7	4.9	6.8	7.0
135°	0.7	0.5	4.0	6.1	6.3
137.5°	0.5	0.5	3.0	5.1	5.8
140°	0.5	0.5	2.3	4.4	4.9
142.5°	0.5	0.5	1.6	3.5	4.2
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)