

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: P273499

Luminaire Tested: **0.10-3W-835-45-OD-STD-UNV-AN-1F6**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P273499  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (ITL89168-GONIOPHOTOMETRY)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: 0.10-3W-835-45-OD-STD-UNV-AN-1F6  
Description: iO LIGHTING SERIES 1.5 LINEAR LED LUMINAIRE, 45 DEGREE OPTIC.  
HIGH OUTPUT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 262.0 lumens  
Efficiency: N/A  
Efficacy: 29.4 lumens/watt  
Spacing Criteria (0/90/45): 0.87 / 1.18 / 0.97  
Luminous Opening: Rectangular w/ Sides (W: 1.4' x L: 0.07' x H: 0.01')  
CIE Type: Direct

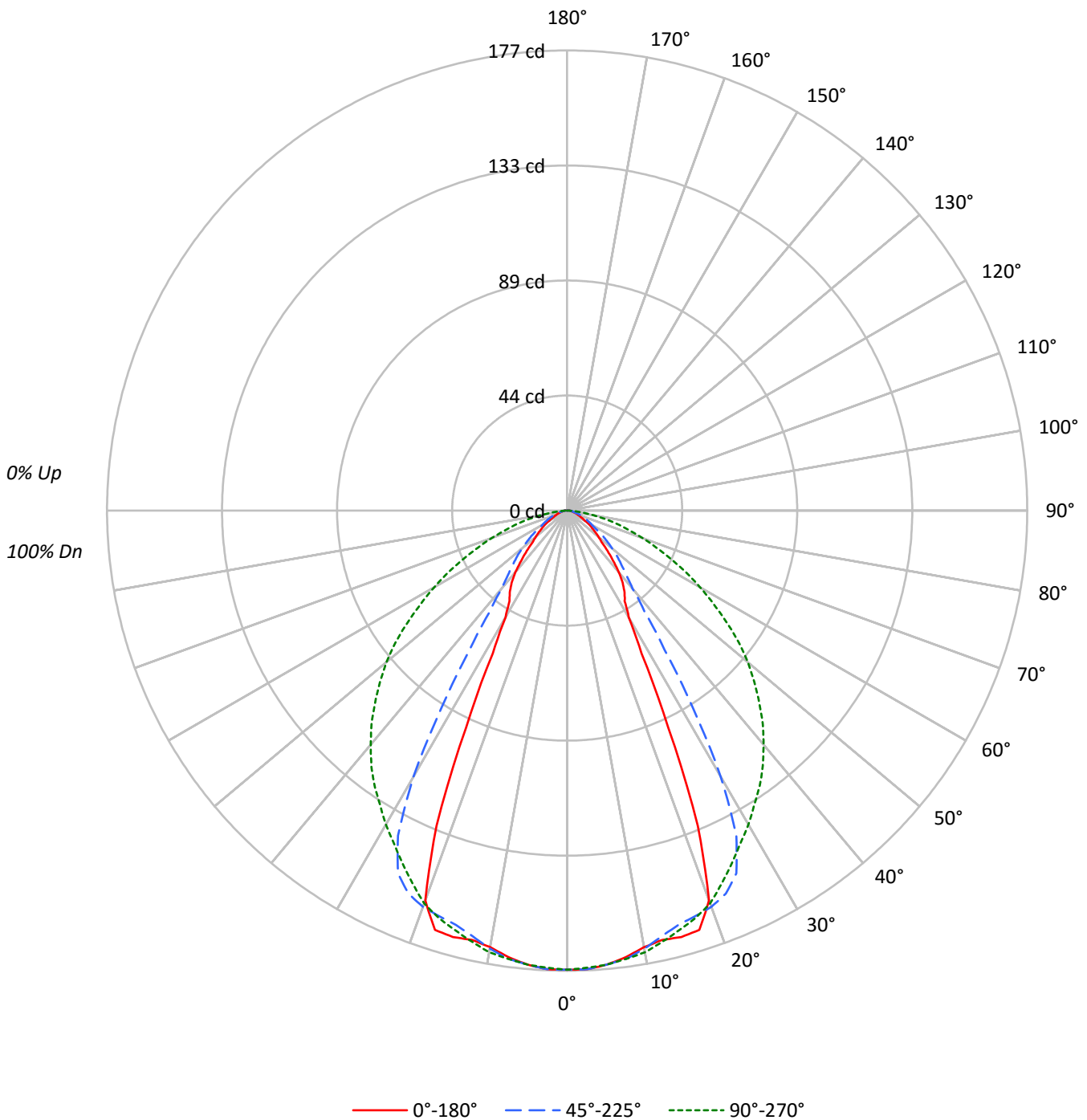
Input Watts (W): 8.9  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	111	111	111	106	106	106	102	102	102	100
1	111	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79
3	97	88	82	76	94	87	81	76	84	79	74	81	77	73	79	75	72	70
4	90	80	73	68	88	79	72	67	77	71	66	74	69	65	72	68	65	63
5	84	73	66	61	82	72	65	60	70	64	60	69	63	59	67	62	58	57
6	79	68	60	55	77	67	60	54	65	59	54	63	58	54	62	57	53	51
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47
8	69	58	51	46	68	57	50	45	56	50	45	55	49	45	54	49	45	43
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	37

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	20039	20039	20039
5°	19702	19770	19954
10°	19126	19326	19849
15°	19157	18808	19579
20°	18239	18805	19364
25°	10759	18307	18690
30°	5704	14530	18200
35°	4814	8376	17804
40°	4054	5299	17297
45°	3060	4264	16645
50°	2357	3528	15870
55°	1898	2807	14662
60°	1469	2085	13242
65°	1110	1769	11628
70°	956	1389	10046
75°	752	1046	8489
80°	733	833	6458
85°	661	791	4080



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	16.6	6.3
10°-20°	47.2	18.0
20°-30°	61.0	23.3
30°-40°	50.3	19.2
40°-50°	40.1	15.3
50°-60°	24.5	9.4
60°-70°	13.6	5.2
70°-80°	6.4	2.4
80°-90°	2.0	0.7
90°-100°	0.3	0.1
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
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°	124.8	47.6
0°-40°	175.1	66.8
0°-60°	239.7	91.5
0°-90°	261.7	99.9
90°-120°	0.3	0.1
90°-150°	0.3	0.1
90°-180°	0.0	0.0
0°-180°	262.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	177	177	177	177	177	
5°	175	175	175	175	175	17
15°	170	168	165	167	167	48
25°	92	117	154	148	150	43
35°	38	39	65	128	129	24
45°	22	24	30	92	104	17
55°	12	12	16	36	75	11
65°	6	6	8	15	44	6
75°	3	3	3	6	20	3
85°	1	1	1	1	3	1
90°	1	1	1	1	0	0
95°	1	1	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	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°	176.6	176.6	176.6	176.6	176.6
2.5°	176.6	176.6	176.6	176.0	176.0
5°	175.3	175.3	175.3	175.3	175.3
7.5°	173.2	173.2	173.9	173.9	173.9
10°	170.5	170.5	171.1	171.8	172.5
12.5°	169.1	168.4	167.7	169.8	169.8
15°	169.8	168.4	165.0	167.0	167.0
17.5°	169.1	169.1	163.6	163.6	164.3
20°	159.5	165.0	162.2	158.8	160.8
22.5°	131.3	149.2	159.5	153.3	155.3
25°	92.1	116.8	154.0	147.8	149.8
27.5°	61.9	81.1	140.9	142.3	144.3
30°	47.4	56.4	118.2	138.2	139.5
32.5°	41.2	44.0	90.0	133.3	134.0
35°	38.5	39.2	65.3	128.5	129.2
37.5°	35.1	35.7	48.8	123.0	123.7
40°	30.9	32.3	39.2	115.5	117.5
42.5°	26.1	28.2	33.7	105.9	111.4
45°	22.0	24.1	29.6	92.1	104.5
47.5°	17.9	19.9	26.1	77.0	97.6
50°	15.8	16.5	22.7	61.2	90.7
52.5°	13.7	13.7	19.2	46.7	83.2
55°	11.7	12.4	16.5	35.7	74.9
57.5°	10.3	10.3	13.1	27.5	66.7
60°	8.2	8.9	11.0	22.7	59.1
62.5°	6.9	7.6	9.6	18.6	51.6
65°	5.5	6.2	8.2	15.1	44.0
67.5°	4.8	4.8	6.9	12.4	37.1
70°	4.1	4.1	5.5	9.6	30.9
72.5°	3.4	3.4	4.8	7.6	24.7
75°	2.7	2.7	3.4	6.2	19.9
77.5°	2.1	2.1	2.7	4.8	15.1
80°	2.1	2.1	2.1	3.4	10.3
82.5°	1.4	1.4	2.1	2.1	6.2
85°	1.4	1.4	1.4	1.4	3.4
87.5°	1.4	1.4	1.4	0.7	0.7
90°	0.7	0.7	0.7	0.7	0.0
92.5°	0.7	0.7	0.7	0.0	0.0
95°	0.7	0.7	0.0	0.0	0.0
97.5°	0.7	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	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)