

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: P273367

Luminaire Tested: **0.03-3W-840-55-ID-STD-UNV-AN-3F0**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P273367  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1708-246-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: 0.03-3W-840-55-ID-STD-UNV-AN-3F0  
Description: iO LIGHTING SERIES .75 LINEAR LED LUMINAIRE, 55 DEGREE OPTIC.  
HIGH OUTPUT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 510.1 lumens  
Efficiency: N/A  
Efficacy: 40.8 lumens/watt  
Spacing Criteria (0/90/45): 0.84 / 1.25 / 1.04  
Luminous Opening: Rectangular (W 2.92' x L: 0.06' x H: 0')  
CIE Type: Direct

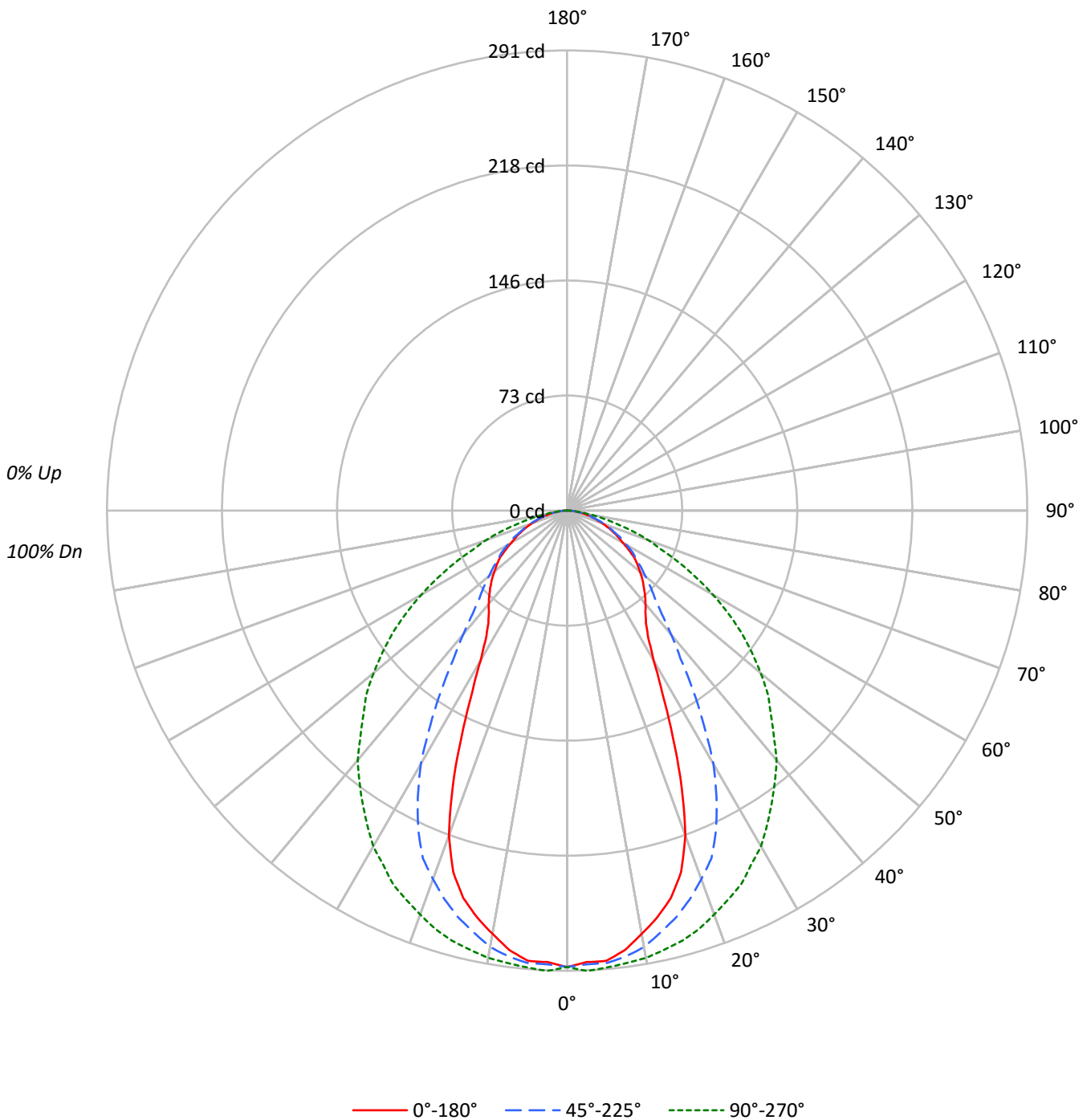
Input Watts (W): 12.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	103	99	108	104	101	98	100	97	95	96	94	92	92	91	89	87
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	75
3	94	85	77	72	92	83	76	71	80	74	70	78	73	69	75	71	67	65
4	87	76	68	62	85	75	68	62	72	66	61	70	65	60	68	63	60	58
5	81	69	61	55	79	68	60	55	66	59	54	64	58	54	62	57	53	51
6	75	63	55	49	73	62	54	49	60	54	48	59	53	48	57	52	48	46
7	70	58	50	44	69	57	49	44	56	49	44	54	48	43	53	47	43	41
8	66	53	45	40	64	53	45	40	51	45	40	50	44	40	49	44	39	38
9	62	49	42	37	60	49	42	37	48	41	36	47	41	36	46	40	36	34
10	58	46	39	34	57	45	38	34	45	38	34	44	38	33	43	37	33	32

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

	0°	45°	90°
0°	17041	17041	17041
5°	16940	17023	17189
10°	16297	16800	17220
15°	15503	16273	17214
20°	13736	15584	17079
25°	10314	14516	16979
30°	7452	12614	16718
35°	6264	9998	16262
40°	5943	7885	15879
45°	5737	6555	15206
50°	5530	5925	14670
55°	5333	5477	13846
60°	4795	5125	12577
65°	4499	4695	10968
70°	4109	4351	9426
75°	3833	3833	7346
80°	3332	3332	5237
85°	2845	2845	3794



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	27.1	5.3
10°-20°	74.8	14.7
20°-30°	98.2	19.3
30°-40°	93.9	18.4
40°-50°	82.1	16.1
50°-60°	64.9	12.7
60°-70°	42.7	8.4
70°-80°	21.1	4.1
80°-90°	5.4	1.1
90°-100°	0.0	0.0
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°	200.2	39.2
0°-40°	294.0	57.6
0°-60°	441.0	86.4
0°-90°	510.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	510.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	289	289	289	289	289	
5°	286	284	287	289	290	27
15°	254	257	266	277	282	70
25°	158	179	223	249	261	73
35°	87	92	139	208	226	56
45°	69	69	78	152	182	53
55°	52	52	53	92	134	46
65°	32	32	34	49	78	32
75°	17	17	17	21	32	17
85°	4	4	4	4	6	5
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	288.6	288.6	288.6	288.6	288.6	288.6	288.6	288.6	288.6	288.6	288.6
2.5°	285.8	285.8	285.8	285.8	285.8	285.8	285.8	287.2	287.2	287.2	287.2
5°	285.8	285.8	285.8	284.4	284.4	284.4	285.8	285.8	285.8	287.2	287.2
7.5°	280.2	281.6	280.2	280.2	281.6	281.6	281.6	283.0	283.0	284.4	284.4
10°	271.8	271.8	273.2	273.2	273.2	274.6	274.6	277.4	278.8	280.2	280.2
12.5°	263.4	263.4	263.4	264.8	264.8	266.2	267.6	269.0	271.8	273.2	274.6
15°	253.6	253.6	255.0	255.0	256.4	257.8	259.2	262.0	263.4	266.2	269.0
17.5°	239.6	241.0	241.0	242.4	245.2	246.6	249.4	252.2	255.0	257.8	260.6
20°	218.6	218.6	221.4	224.2	227.0	231.2	235.4	239.6	243.8	248.0	252.2
22.5°	189.2	190.6	193.4	197.6	203.2	210.2	215.8	224.2	231.2	238.2	242.4
25°	158.3	159.7	162.5	166.7	173.7	183.5	192.0	203.2	213.0	222.8	231.2
27.5°	130.3	131.7	133.1	138.7	145.7	154.1	165.3	177.9	192.0	204.6	217.2
30°	109.3	110.7	112.1	114.9	120.5	128.9	138.7	152.7	168.1	185.0	200.4
32.5°	95.3	95.3	96.7	99.5	102.3	107.9	116.3	127.5	142.9	161.1	179.3
35°	86.9	86.9	88.3	88.3	91.1	93.9	99.5	109.3	120.5	138.7	158.3
37.5°	81.3	81.3	81.3	82.7	82.7	85.5	88.3	93.9	103.7	117.7	137.3
40°	77.1	77.1	77.1	77.1	77.1	78.5	81.3	84.1	91.1	102.3	116.3
42.5°	72.9	72.9	72.9	72.9	72.9	74.3	74.3	77.1	81.3	88.3	100.9
45°	68.7	68.7	68.7	68.7	68.7	68.7	70.1	71.5	74.3	78.5	86.9
47.5°	64.5	64.5	64.5	64.5	64.5	64.5	65.9	65.9	67.3	71.5	77.1
50°	60.2	60.2	60.2	60.2	60.2	60.2	60.2	61.7	61.7	64.5	68.7
52.5°	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	57.4	58.8	61.7
55°	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	53.2	56.0
57.5°	46.2	46.2	46.2	46.2	46.2	47.6	47.6	47.6	47.6	49.0	50.4
60°	40.6	40.6	40.6	40.6	42.0	42.0	43.4	43.4	42.0	43.4	44.8
62.5°	36.4	36.4	36.4	36.4	36.4	37.8	37.8	37.8	37.8	39.2	39.2
65°	32.2	32.2	32.2	32.2	32.2	32.2	33.6	33.6	33.6	33.6	35.0
67.5°	28.0	28.0	28.0	28.0	28.0	28.0	28.0	29.4	29.4	29.4	29.4
70°	23.8	23.8	23.8	23.8	23.8	23.8	23.8	25.2	25.2	25.2	25.2
72.5°	19.6	21.0	21.0	19.6	19.6	19.6	19.6	21.0	21.0	21.0	21.0
75°	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8
77.5°	12.6	14.0	14.0	12.6	12.6	12.6	12.6	12.6	14.0	14.0	14.0
80°	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8
82.5°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
85°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
87.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	288.6	288.6	288.6	288.6	288.6	288.6	288.6	288.6
2.5°	287.2	288.6	288.6	288.6	290.0	290.0	291.4	291.4
5°	287.2	287.2	288.6	288.6	288.6	288.6	290.0	290.0
7.5°	285.8	285.8	285.8	287.2	287.2	287.2	288.6	288.6
10°	281.6	283.0	284.4	284.4	285.8	287.2	287.2	287.2
12.5°	277.4	278.8	280.2	281.6	283.0	284.4	284.4	284.4
15°	270.4	273.2	276.0	277.4	278.8	280.2	281.6	281.6
17.5°	263.4	267.6	270.4	273.2	274.6	276.0	277.4	277.4
20°	255.0	259.2	263.4	266.2	269.0	271.8	271.8	271.8
22.5°	246.6	250.8	255.0	259.2	263.4	264.8	266.2	266.2
25°	236.8	241.0	246.6	250.8	255.0	259.2	260.6	260.6
27.5°	225.6	232.6	238.2	242.4	248.0	250.8	253.6	252.2
30°	211.6	221.4	227.0	232.6	238.2	242.4	245.2	245.2
32.5°	196.2	208.8	215.8	222.8	228.4	232.6	235.4	235.4
35°	177.9	194.8	204.6	211.6	217.2	222.8	225.6	225.6
37.5°	158.3	177.9	192.0	200.4	206.0	213.0	215.8	215.8
40°	137.3	159.7	176.5	187.8	194.8	201.8	204.6	206.0
42.5°	117.7	141.5	161.1	173.7	182.1	189.2	193.4	193.4
45°	102.3	123.3	144.3	159.7	169.5	176.5	182.1	182.1
47.5°	88.3	106.5	127.5	145.7	156.9	165.3	170.9	172.3
50°	77.1	91.1	112.1	131.7	144.3	152.7	158.3	159.7
52.5°	67.3	78.5	96.7	116.3	130.3	140.1	145.7	147.1
55°	60.2	68.7	82.7	100.9	117.7	126.1	131.7	134.5
57.5°	53.2	60.2	71.5	88.3	103.7	112.1	117.7	120.5
60°	47.6	51.8	61.7	75.7	89.7	99.5	105.1	106.5
62.5°	42.0	44.8	51.8	63.1	77.1	85.5	91.1	92.5
65°	36.4	39.2	44.8	53.2	64.5	72.9	77.1	78.5
67.5°	30.8	33.6	37.8	43.4	51.8	58.8	63.1	64.5
70°	26.6	28.0	30.8	35.0	42.0	47.6	51.8	54.6
72.5°	22.4	22.4	25.2	28.0	32.2	36.4	40.6	43.4
75°	18.2	18.2	19.6	22.4	25.2	28.0	30.8	32.2
77.5°	14.0	14.0	15.4	16.8	18.2	19.6	22.4	23.8
80°	9.8	9.8	11.2	11.2	12.6	14.0	15.4	15.4
82.5°	7.0	7.0	7.0	7.0	8.4	8.4	9.8	9.8
85°	4.2	4.2	4.2	4.2	4.2	4.2	5.6	5.6
87.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)