

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: P273357

Luminaire Tested: **0.03-3W-830-55-ID-STD-UNV-AN-3F0**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P273357  
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-830-55-ID-STD-UNV-AN-3F0  
Description: iO LIGHTING SERIES .75 LINEAR LED LUMINAIRE, 55 DEGREE OPTIC.  
HIGH OUTPUT  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 481.3 lumens  
Efficiency: N/A  
Efficacy: 38.5 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

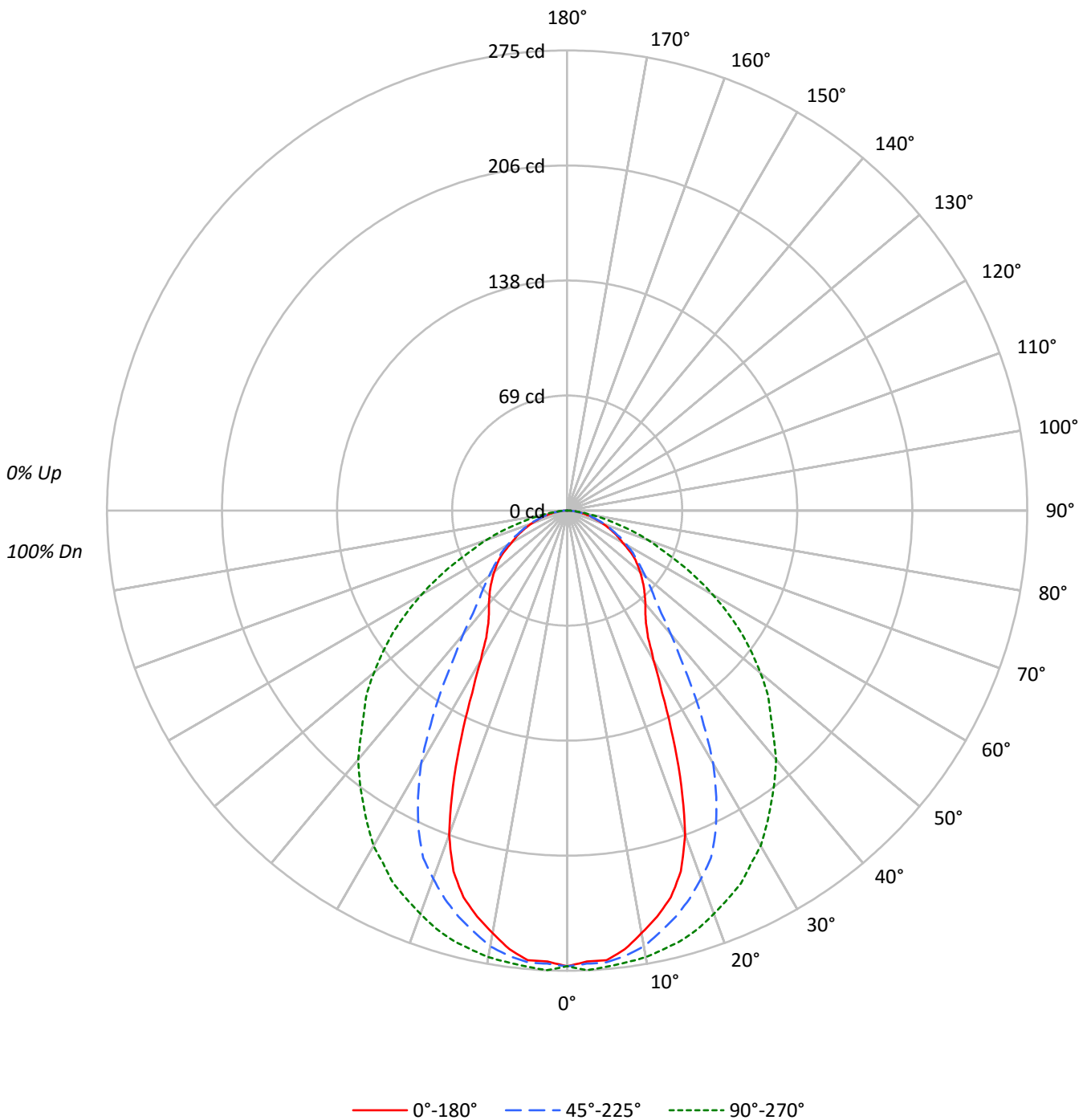
Input Watts (W): 12.5  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	77	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°	16079	16079	16079
5°	15986	16063	16217
10°	15373	15853	16249
15°	14629	15350	16242
20°	12957	14704	16111
25°	9734	13695	16021
30°	7030	11898	15771
35°	5911	9436	15339
40°	5604	7438	14977
45°	5411	6179	14346
50°	5218	5585	13844
55°	5034	5168	13064
60°	4523	4842	11869
65°	4247	4429	10339
70°	3884	4109	8908
75°	3627	3627	6936
80°	3162	3162	4931
85°	2710	2710	3591



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	25.6	5.3
10°-20°	70.6	14.7
20°-30°	92.7	19.3
30°-40°	88.6	18.4
40°-50°	77.4	16.1
50°-60°	61.2	12.7
60°-70°	40.3	8.4
70°-80°	19.9	4.1
80°-90°	5.1	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°	188.9	39.2
0°-40°	277.4	57.6
0°-60°	416.0	86.4
0°-90°	481.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	481.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	272	272	272	272	272	
5°	270	268	271	272	274	25
15°	239	243	251	261	266	66
25°	149	169	210	235	246	69
35°	82	87	131	196	213	52
45°	65	65	74	143	172	50
55°	49	49	50	87	127	43
65°	30	30	32	46	74	30
75°	16	16	16	20	30	16
85°	4	4	4	4	5	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°	272.3	272.3	272.3	272.3	272.3	272.3	272.3	272.3	272.3	272.3	272.3
2.5°	269.7	269.7	269.7	269.7	269.7	269.7	269.7	271.0	271.0	271.0	271.0
5°	269.7	269.7	269.7	268.3	268.3	268.3	269.7	269.7	269.7	271.0	271.0
7.5°	264.4	265.7	264.4	264.4	265.7	265.7	265.7	267.0	267.0	268.3	268.3
10°	256.4	256.4	257.8	257.8	257.8	259.1	259.1	261.7	263.0	264.4	264.4
12.5°	248.5	248.5	248.5	249.8	249.8	251.1	252.5	253.8	256.4	257.8	259.1
15°	239.3	239.3	240.6	240.6	241.9	243.2	244.5	247.2	248.5	251.1	253.8
17.5°	226.0	227.4	227.4	228.7	231.3	232.6	235.3	237.9	240.6	243.2	245.9
20°	206.2	206.2	208.8	211.5	214.1	218.1	222.1	226.0	230.0	234.0	237.9
22.5°	178.4	179.8	182.4	186.4	191.7	198.3	203.6	211.5	218.1	224.7	228.7
25°	149.4	150.7	153.3	157.3	163.9	173.2	181.1	191.7	200.9	210.2	218.1
27.5°	122.9	124.3	125.6	130.9	137.5	145.4	156.0	167.9	181.1	193.0	204.9
30°	103.1	104.4	105.7	108.4	113.7	121.6	130.9	144.1	158.6	174.5	189.0
32.5°	89.9	89.9	91.2	93.8	96.5	101.8	109.7	120.3	134.8	152.0	169.2
35°	82.0	82.0	83.3	83.3	85.9	88.6	93.8	103.1	113.7	130.9	149.4
37.5°	76.7	76.7	76.7	78.0	78.0	80.6	83.3	88.6	97.8	111.0	129.5
40°	72.7	72.7	72.7	72.7	72.7	74.0	76.7	79.3	85.9	96.5	109.7
42.5°	68.7	68.7	68.7	68.7	68.7	70.1	70.1	72.7	76.7	83.3	95.2
45°	64.8	64.8	64.8	64.8	64.8	64.8	66.1	67.4	70.1	74.0	82.0
47.5°	60.8	60.8	60.8	60.8	60.8	60.8	62.1	62.1	63.4	67.4	72.7
50°	56.8	56.8	56.8	56.8	56.8	56.8	56.8	58.2	58.2	60.8	64.8
52.5°	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	54.2	55.5	58.2
55°	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	50.2	52.9
57.5°	43.6	43.6	43.6	43.6	43.6	44.9	44.9	44.9	44.9	46.3	47.6
60°	38.3	38.3	38.3	38.3	39.7	39.7	41.0	41.0	39.7	41.0	42.3
62.5°	34.4	34.4	34.4	34.4	34.4	35.7	35.7	35.7	35.7	37.0	37.0
65°	30.4	30.4	30.4	30.4	30.4	30.4	31.7	31.7	31.7	31.7	33.0
67.5°	26.4	26.4	26.4	26.4	26.4	26.4	26.4	27.8	27.8	27.8	27.8
70°	22.5	22.5	22.5	22.5	22.5	22.5	22.5	23.8	23.8	23.8	23.8
72.5°	18.5	19.8	19.8	18.5	18.5	18.5	18.5	19.8	19.8	19.8	19.8
75°	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9
77.5°	11.9	13.2	13.2	11.9	11.9	11.9	11.9	11.9	13.2	13.2	13.2
80°	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3
82.5°	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6
85°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
87.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
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°	272.3	272.3	272.3	272.3	272.3	272.3	272.3	272.3
2.5°	271.0	272.3	272.3	272.3	273.6	273.6	274.9	274.9
5°	271.0	271.0	272.3	272.3	272.3	272.3	273.6	273.6
7.5°	269.7	269.7	269.7	271.0	271.0	271.0	272.3	272.3
10°	265.7	267.0	268.3	268.3	269.7	271.0	271.0	271.0
12.5°	261.7	263.0	264.4	265.7	267.0	268.3	268.3	268.3
15°	255.1	257.8	260.4	261.7	263.0	264.4	265.7	265.7
17.5°	248.5	252.5	255.1	257.8	259.1	260.4	261.7	261.7
20°	240.6	244.5	248.5	251.1	253.8	256.4	256.4	256.4
22.5°	232.6	236.6	240.6	244.5	248.5	249.8	251.1	251.1
25°	223.4	227.4	232.6	236.6	240.6	244.5	245.9	245.9
27.5°	212.8	219.4	224.7	228.7	234.0	236.6	239.3	237.9
30°	199.6	208.8	214.1	219.4	224.7	228.7	231.3	231.3
32.5°	185.1	197.0	203.6	210.2	215.5	219.4	222.1	222.1
35°	167.9	183.7	193.0	199.6	204.9	210.2	212.8	212.8
37.5°	149.4	167.9	181.1	189.0	194.3	200.9	203.6	203.6
40°	129.5	150.7	166.6	177.1	183.7	190.3	193.0	194.3
42.5°	111.0	133.5	152.0	163.9	171.8	178.4	182.4	182.4
45°	96.5	116.3	136.1	150.7	159.9	166.6	171.8	171.8
47.5°	83.3	100.5	120.3	137.5	148.0	156.0	161.3	162.6
50°	72.7	85.9	105.7	124.3	136.1	144.1	149.4	150.7
52.5°	63.4	74.0	91.2	109.7	122.9	132.2	137.5	138.8
55°	56.8	64.8	78.0	95.2	111.0	119.0	124.3	126.9
57.5°	50.2	56.8	67.4	83.3	97.8	105.7	111.0	113.7
60°	44.9	48.9	58.2	71.4	84.6	93.8	99.1	100.5
62.5°	39.7	42.3	48.9	59.5	72.7	80.6	85.9	87.2
65°	34.4	37.0	42.3	50.2	60.8	68.7	72.7	74.0
67.5°	29.1	31.7	35.7	41.0	48.9	55.5	59.5	60.8
70°	25.1	26.4	29.1	33.0	39.7	44.9	48.9	51.6
72.5°	21.1	21.1	23.8	26.4	30.4	34.4	38.3	41.0
75°	17.2	17.2	18.5	21.1	23.8	26.4	29.1	30.4
77.5°	13.2	13.2	14.5	15.9	17.2	18.5	21.1	22.5
80°	9.3	9.3	10.6	10.6	11.9	13.2	14.5	14.5
82.5°	6.6	6.6	6.6	6.6	7.9	7.9	9.3	9.3
85°	4.0	4.0	4.0	4.0	4.0	4.0	5.3	5.3
87.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)