

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: P273332

Luminaire Tested: **0.03-1W-827-55-ID-STD-UNV-AN-3F0**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P273332
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: 0.03-1W-827-55-ID-STD-UNV-AN-3F0
Description: iO LIGHTING SERIES .75 LINEAR LED LUMINAIRE, 55 DEGREE OPTIC.
STANDARD OUTPUT
Light Source: 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 187.1 lumens
Efficiency: N/A
Efficacy: 24.9 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

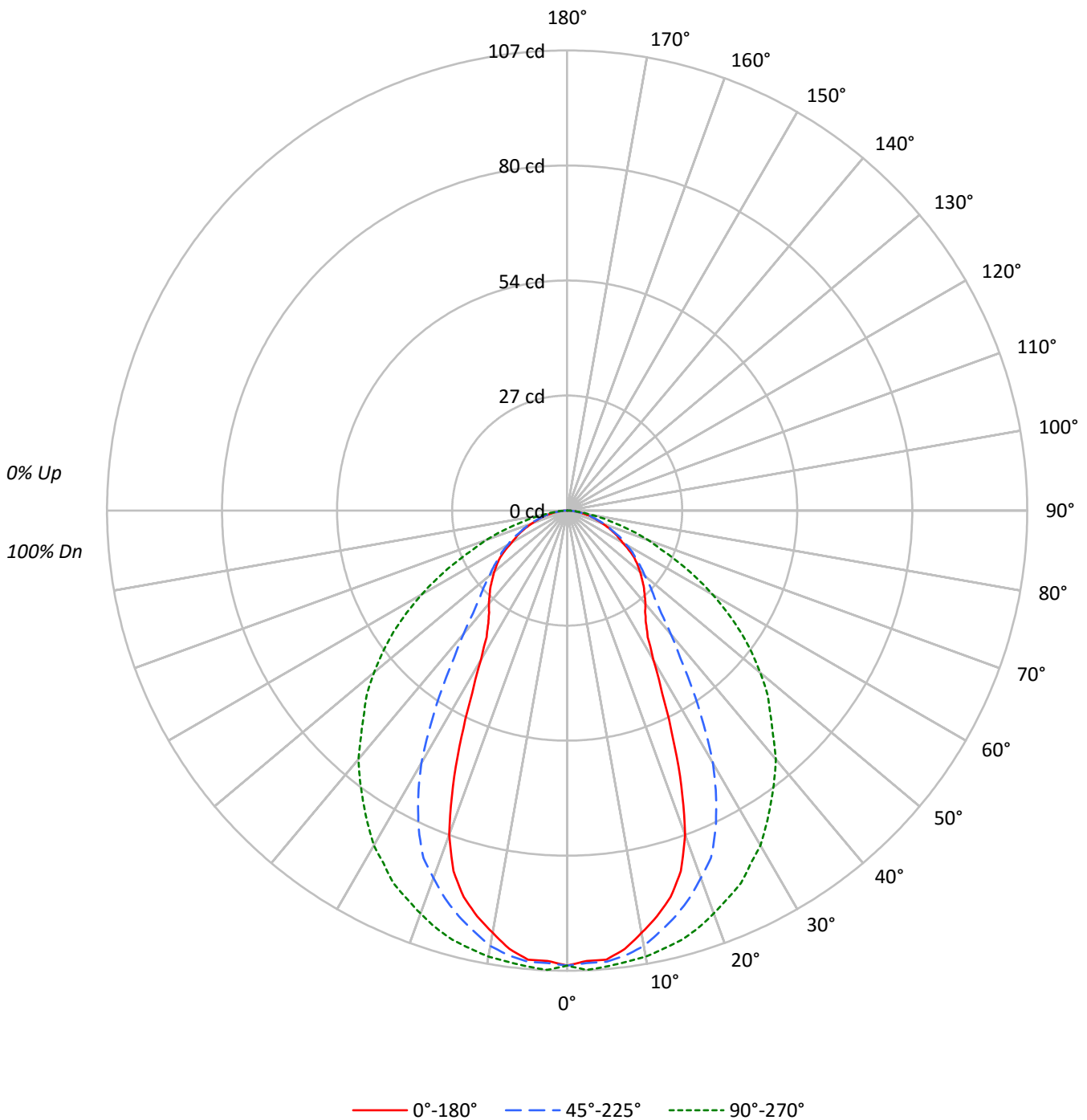
Input Watts (W): 7.5
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	6247	6247	6247
5°	6212	6241	6307
10°	5978	6164	6314
15°	5685	5966	6315
20°	5040	5712	6265
25°	3785	5323	6229
30°	2734	4623	6130
35°	2299	3669	5961
40°	2181	2891	5820
45°	2104	2405	5578
50°	2030	2168	5383
55°	1956	2007	5075
60°	1760	1878	4618
65°	1649	1719	4024
70°	1502	1588	3453
75°	1414	1414	2692
80°	1224	1224	1938
85°	1016	1016	1423



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.0	5.3
10°-20°	27.4	14.7
20°-30°	36.0	19.3
30°-40°	34.4	18.4
40°-50°	30.1	16.1
50°-60°	23.8	12.7
60°-70°	15.6	8.4
70°-80°	7.7	4.1
80°-90°	2.0	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°	73.4	39.2
0°-40°	107.8	57.6
0°-60°	161.7	86.4
0°-90°	187.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	187.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	106	106	106	106	106	
5°	105	104	105	106	106	10
15°	93	94	98	101	103	26
25°	58	66	82	91	96	27
35°	32	34	51	76	83	20
45°	25	25	29	56	67	19
55°	19	19	20	34	49	17
65°	12	12	12	18	29	12
75°	6	6	6	8	12	6
85°	2	2	2	2	2	2
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°	105.8	105.8	105.8	105.8	105.8	105.8	105.8	105.8	105.8	105.8	105.8
2.5°	104.8	104.8	104.8	104.8	104.8	104.8	104.8	105.3	105.3	105.3	105.3
5°	104.8	104.8	104.8	104.3	104.3	104.3	104.8	104.8	104.8	105.3	105.3
7.5°	102.8	103.3	102.8	102.8	103.3	103.3	103.3	103.8	103.8	104.3	104.3
10°	99.7	99.7	100.2	100.2	100.2	100.7	100.7	101.7	102.3	102.8	102.8
12.5°	96.6	96.6	96.6	97.1	97.1	97.6	98.1	98.7	99.7	100.2	100.7
15°	93.0	93.0	93.5	93.5	94.0	94.5	95.1	96.1	96.6	97.6	98.7
17.5°	87.9	88.4	88.4	88.9	89.9	90.4	91.5	92.5	93.5	94.5	95.6
20°	80.2	80.2	81.2	82.2	83.2	84.8	86.3	87.9	89.4	90.9	92.5
22.5°	69.4	69.9	70.9	72.4	74.5	77.1	79.1	82.2	84.8	87.4	88.9
25°	58.1	58.6	59.6	61.1	63.7	67.3	70.4	74.5	78.1	81.7	84.8
27.5°	47.8	48.3	48.8	50.9	53.4	56.5	60.6	65.3	70.4	75.0	79.6
30°	40.1	40.6	41.1	42.1	44.2	47.3	50.9	56.0	61.7	67.8	73.5
32.5°	34.9	34.9	35.5	36.5	37.5	39.6	42.6	46.8	52.4	59.1	65.8
35°	31.9	31.9	32.4	32.4	33.4	34.4	36.5	40.1	44.2	50.9	58.1
37.5°	29.8	29.8	29.8	30.3	30.3	31.3	32.4	34.4	38.0	43.2	50.4
40°	28.3	28.3	28.3	28.3	28.3	28.8	29.8	30.8	33.4	37.5	42.6
42.5°	26.7	26.7	26.7	26.7	26.7	27.2	27.2	28.3	29.8	32.4	37.0
45°	25.2	25.2	25.2	25.2	25.2	25.2	25.7	26.2	27.2	28.8	31.9
47.5°	23.6	23.6	23.6	23.6	23.6	23.6	24.1	24.1	24.7	26.2	28.3
50°	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.6	22.6	23.6	25.2
52.5°	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	21.1	21.6	22.6
55°	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.5	20.6
57.5°	17.0	17.0	17.0	17.0	17.0	17.5	17.5	17.5	17.5	18.0	18.5
60°	14.9	14.9	14.9	14.9	15.4	15.4	15.9	15.9	15.4	15.9	16.4
62.5°	13.4	13.4	13.4	13.4	13.4	13.9	13.9	13.9	13.9	14.4	14.4
65°	11.8	11.8	11.8	11.8	11.8	11.8	12.3	12.3	12.3	12.3	12.8
67.5°	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.8	10.8	10.8	10.8
70°	8.7	8.7	8.7	8.7	8.7	8.7	8.7	9.2	9.2	9.2	9.2
72.5°	7.2	7.7	7.7	7.2	7.2	7.2	7.2	7.7	7.7	7.7	7.7
75°	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
77.5°	4.6	5.1	5.1	4.6	4.6	4.6	4.6	4.6	5.1	5.1	5.1
80°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
82.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
85°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
87.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
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°	105.8	105.8	105.8	105.8	105.8	105.8	105.8	105.8
2.5°	105.3	105.8	105.8	105.8	106.4	106.4	106.9	106.9
5°	105.3	105.3	105.8	105.8	105.8	105.8	106.4	106.4
7.5°	104.8	104.8	104.8	105.3	105.3	105.3	105.8	105.8
10°	103.3	103.8	104.3	104.3	104.8	105.3	105.3	105.3
12.5°	101.7	102.3	102.8	103.3	103.8	104.3	104.3	104.3
15°	99.2	100.2	101.2	101.7	102.3	102.8	103.3	103.3
17.5°	96.6	98.1	99.2	100.2	100.7	101.2	101.7	101.7
20°	93.5	95.1	96.6	97.6	98.7	99.7	99.7	99.7
22.5°	90.4	92.0	93.5	95.1	96.6	97.1	97.6	97.6
25°	86.8	88.4	90.4	92.0	93.5	95.1	95.6	95.6
27.5°	82.7	85.3	87.4	88.9	90.9	92.0	93.0	92.5
30°	77.6	81.2	83.2	85.3	87.4	88.9	89.9	89.9
32.5°	71.9	76.6	79.1	81.7	83.8	85.3	86.3	86.3
35°	65.3	71.4	75.0	77.6	79.6	81.7	82.7	82.7
37.5°	58.1	65.3	70.4	73.5	75.5	78.1	79.1	79.1
40°	50.4	58.6	64.7	68.9	71.4	74.0	75.0	75.5
42.5°	43.2	51.9	59.1	63.7	66.8	69.4	70.9	70.9
45°	37.5	45.2	52.9	58.6	62.2	64.7	66.8	66.8
47.5°	32.4	39.1	46.8	53.4	57.5	60.6	62.7	63.2
50°	28.3	33.4	41.1	48.3	52.9	56.0	58.1	58.6
52.5°	24.7	28.8	35.5	42.6	47.8	51.4	53.4	54.0
55°	22.1	25.2	30.3	37.0	43.2	46.2	48.3	49.3
57.5°	19.5	22.1	26.2	32.4	38.0	41.1	43.2	44.2
60°	17.5	19.0	22.6	27.7	32.9	36.5	38.5	39.1
62.5°	15.4	16.4	19.0	23.1	28.3	31.3	33.4	33.9
65°	13.4	14.4	16.4	19.5	23.6	26.7	28.3	28.8
67.5°	11.3	12.3	13.9	15.9	19.0	21.6	23.1	23.6
70°	9.8	10.3	11.3	12.8	15.4	17.5	19.0	20.0
72.5°	8.2	8.2	9.2	10.3	11.8	13.4	14.9	15.9
75°	6.7	6.7	7.2	8.2	9.2	10.3	11.3	11.8
77.5°	5.1	5.1	5.7	6.2	6.7	7.2	8.2	8.7
80°	3.6	3.6	4.1	4.1	4.6	5.1	5.7	5.7
82.5°	2.6	2.6	2.6	2.6	3.1	3.1	3.6	3.6
85°	1.5	1.5	1.5	1.5	1.5	1.5	2.1	2.1
87.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)