

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: P273347

Luminaire Tested: **0.03-1W-840-55-ID-STD-UNV-AN-3F0**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P273347
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-840-55-ID-STD-UNV-AN-3F0
Description: iO LIGHTING SERIES .75 LINEAR LED LUMINAIRE, 55 DEGREE OPTIC.
STANDARD OUTPUT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 212.1 lumens
Efficiency: N/A
Efficacy: 28.3 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

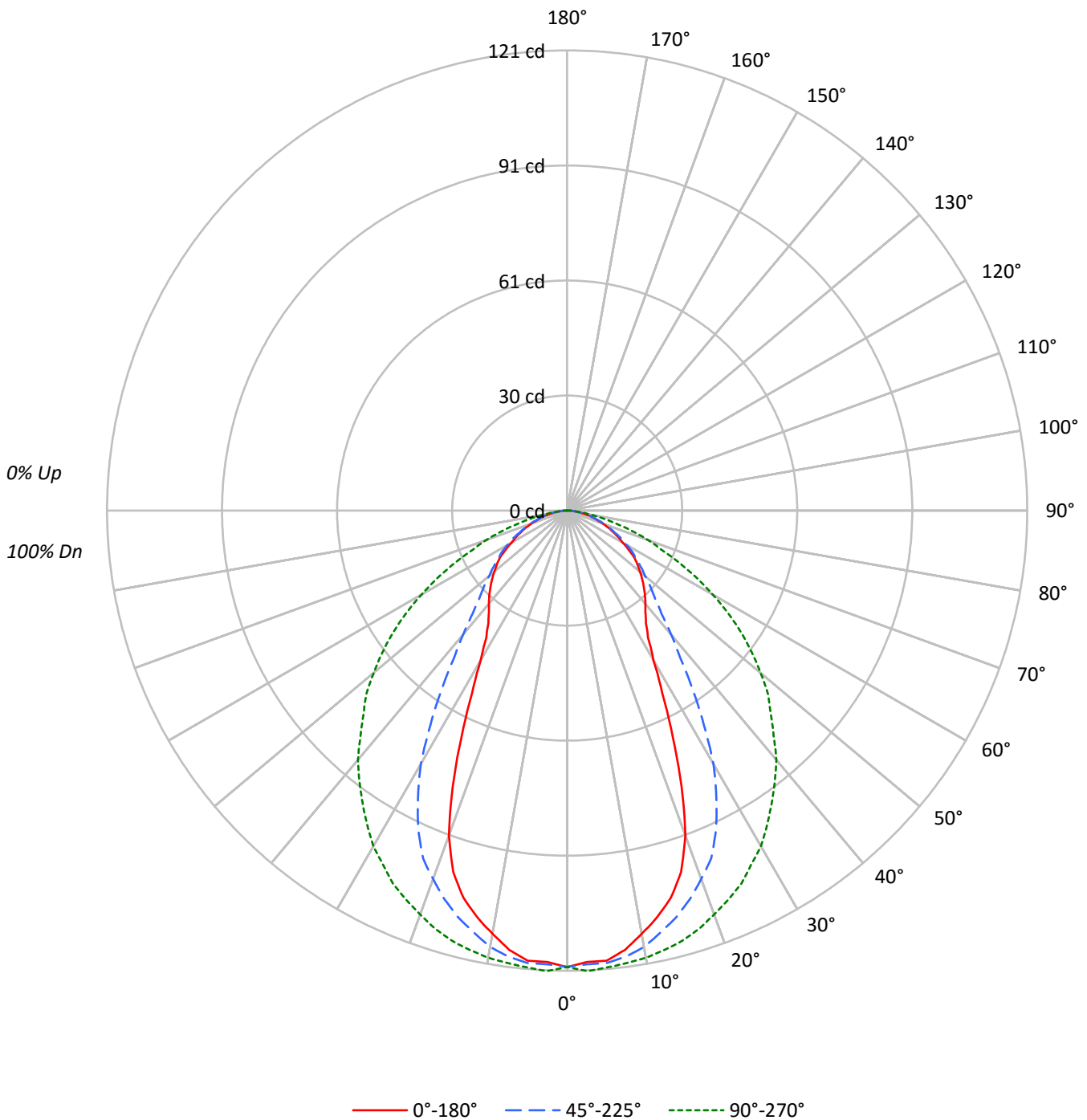
Input Watts (W): 7.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	7086	7086	7086
5°	7042	7077	7148
10°	6775	6985	7159
15°	6443	6767	7158
20°	5712	6479	7101
25°	4287	6033	7056
30°	3095	5243	6948
35°	2602	4159	6761
40°	2467	3276	6598
45°	2380	2722	6321
50°	2297	2462	6100
55°	2224	2275	5755
60°	1996	2138	5232
65°	1872	1956	4555
70°	1709	1813	3919
75°	1597	1597	3057
80°	1394	1394	2176
85°	1152	1152	1558



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.3	5.3
10°-20°	31.1	14.7
20°-30°	40.8	19.3
30°-40°	39.0	18.4
40°-50°	34.1	16.1
50°-60°	27.0	12.7
60°-70°	17.7	8.4
70°-80°	8.8	4.1
80°-90°	2.3	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°	83.2	39.2
0°-40°	122.2	57.6
0°-60°	183.3	86.4
0°-90°	212.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	212.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	120	120	120	120	120	
5°	119	118	119	120	121	11
15°	105	107	111	115	117	29
25°	66	74	93	103	108	30
35°	36	38	58	86	94	23
45°	28	28	33	63	76	22
55°	22	22	22	38	56	19
65°	13	13	14	20	33	13
75°	7	7	7	9	13	7
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°	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
2.5°	118.8	118.8	118.8	118.8	118.8	118.8	118.8	119.4	119.4	119.4	119.4
5°	118.8	118.8	118.8	118.3	118.3	118.3	118.8	118.8	118.8	119.4	119.4
7.5°	116.5	117.1	116.5	116.5	117.1	117.1	117.1	117.7	117.7	118.3	118.3
10°	113.0	113.0	113.6	113.6	113.6	114.2	114.2	115.3	115.9	116.5	116.5
12.5°	109.5	109.5	109.5	110.1	110.1	110.7	111.3	111.8	113.0	113.6	114.2
15°	105.4	105.4	106.0	106.0	106.6	107.2	107.8	108.9	109.5	110.7	111.8
17.5°	99.6	100.2	100.2	100.8	101.9	102.5	103.7	104.9	106.0	107.2	108.3
20°	90.9	90.9	92.0	93.2	94.4	96.1	97.9	99.6	101.4	103.1	104.9
22.5°	78.6	79.2	80.4	82.1	84.5	87.4	89.7	93.2	96.1	99.0	100.8
25°	65.8	66.4	67.6	69.3	72.2	76.3	79.8	84.5	88.5	92.6	96.1
27.5°	54.2	54.8	55.3	57.7	60.6	64.1	68.7	74.0	79.8	85.0	90.3
30°	45.4	46.0	46.6	47.8	50.1	53.6	57.7	63.5	69.9	76.9	83.3
32.5°	39.6	39.6	40.2	41.4	42.5	44.9	48.3	53.0	59.4	67.0	74.6
35°	36.1	36.1	36.7	36.7	37.9	39.0	41.4	45.4	50.1	57.7	65.8
37.5°	33.8	33.8	33.8	34.4	34.4	35.5	36.7	39.0	43.1	48.9	57.1
40°	32.0	32.0	32.0	32.0	32.0	32.6	33.8	35.0	37.9	42.5	48.3
42.5°	30.3	30.3	30.3	30.3	30.3	30.9	30.9	32.0	33.8	36.7	41.9
45°	28.5	28.5	28.5	28.5	28.5	28.5	29.1	29.7	30.9	32.6	36.1
47.5°	26.8	26.8	26.8	26.8	26.8	26.8	27.4	27.4	28.0	29.7	32.0
50°	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.6	25.6	26.8	28.5
52.5°	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.9	24.5	25.6
55°	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	22.1	23.3
57.5°	19.2	19.2	19.2	19.2	19.2	19.8	19.8	19.8	19.8	20.4	21.0
60°	16.9	16.9	16.9	16.9	17.5	17.5	18.1	18.1	17.5	18.1	18.6
62.5°	15.1	15.1	15.1	15.1	15.1	15.7	15.7	15.7	15.7	16.3	16.3
65°	13.4	13.4	13.4	13.4	13.4	13.4	14.0	14.0	14.0	14.0	14.6
67.5°	11.7	11.7	11.7	11.7	11.7	11.7	11.7	12.2	12.2	12.2	12.2
70°	9.9	9.9	9.9	9.9	9.9	9.9	9.9	10.5	10.5	10.5	10.5
72.5°	8.2	8.7	8.7	8.2	8.2	8.2	8.2	8.7	8.7	8.7	8.7
75°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
77.5°	5.2	5.8	5.8	5.2	5.2	5.2	5.2	5.2	5.8	5.8	5.8
80°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
82.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
85°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
87.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
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°	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
2.5°	119.4	120.0	120.0	120.0	120.6	120.6	121.2	121.2
5°	119.4	119.4	120.0	120.0	120.0	120.0	120.6	120.6
7.5°	118.8	118.8	118.8	119.4	119.4	119.4	120.0	120.0
10°	117.1	117.7	118.3	118.3	118.8	119.4	119.4	119.4
12.5°	115.3	115.9	116.5	117.1	117.7	118.3	118.3	118.3
15°	112.4	113.6	114.8	115.3	115.9	116.5	117.1	117.1
17.5°	109.5	111.3	112.4	113.6	114.2	114.8	115.3	115.3
20°	106.0	107.8	109.5	110.7	111.8	113.0	113.0	113.0
22.5°	102.5	104.3	106.0	107.8	109.5	110.1	110.7	110.7
25°	98.4	100.2	102.5	104.3	106.0	107.8	108.3	108.3
27.5°	93.8	96.7	99.0	100.8	103.1	104.3	105.4	104.9
30°	88.0	92.0	94.4	96.7	99.0	100.8	101.9	101.9
32.5°	81.6	86.8	89.7	92.6	95.0	96.7	97.9	97.9
35°	74.0	81.0	85.0	88.0	90.3	92.6	93.8	93.8
37.5°	65.8	74.0	79.8	83.3	85.6	88.5	89.7	89.7
40°	57.1	66.4	73.4	78.1	81.0	83.9	85.0	85.6
42.5°	48.9	58.8	67.0	72.2	75.7	78.6	80.4	80.4
45°	42.5	51.3	60.0	66.4	70.5	73.4	75.7	75.7
47.5°	36.7	44.3	53.0	60.6	65.2	68.7	71.1	71.7
50°	32.0	37.9	46.6	54.8	60.0	63.5	65.8	66.4
52.5°	28.0	32.6	40.2	48.3	54.2	58.3	60.6	61.2
55°	25.0	28.5	34.4	41.9	48.9	52.4	54.8	55.9
57.5°	22.1	25.0	29.7	36.7	43.1	46.6	48.9	50.1
60°	19.8	21.6	25.6	31.5	37.3	41.4	43.7	44.3
62.5°	17.5	18.6	21.6	26.2	32.0	35.5	37.9	38.4
65°	15.1	16.3	18.6	22.1	26.8	30.3	32.0	32.6
67.5°	12.8	14.0	15.7	18.1	21.6	24.5	26.2	26.8
70°	11.1	11.7	12.8	14.6	17.5	19.8	21.6	22.7
72.5°	9.3	9.3	10.5	11.7	13.4	15.1	16.9	18.1
75°	7.6	7.6	8.2	9.3	10.5	11.7	12.8	13.4
77.5°	5.8	5.8	6.4	7.0	7.6	8.2	9.3	9.9
80°	4.1	4.1	4.7	4.7	5.2	5.8	6.4	6.4
82.5°	2.9	2.9	2.9	2.9	3.5	3.5	4.1	4.1
85°	1.7	1.7	1.7	1.7	1.7	1.7	2.3	2.3
87.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)