

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: P273342

Luminaire Tested: **0.03-1W-835-55-ID-STD-UNV-AN-3F0**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P273342
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-835-55-ID-STD-UNV-AN-3F0
Description: iO LIGHTING SERIES .75 LINEAR LED LUMINAIRE, 55 DEGREE OPTIC.
STANDARD OUTPUT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 208.1 lumens
Efficiency: N/A
Efficacy: 27.7 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

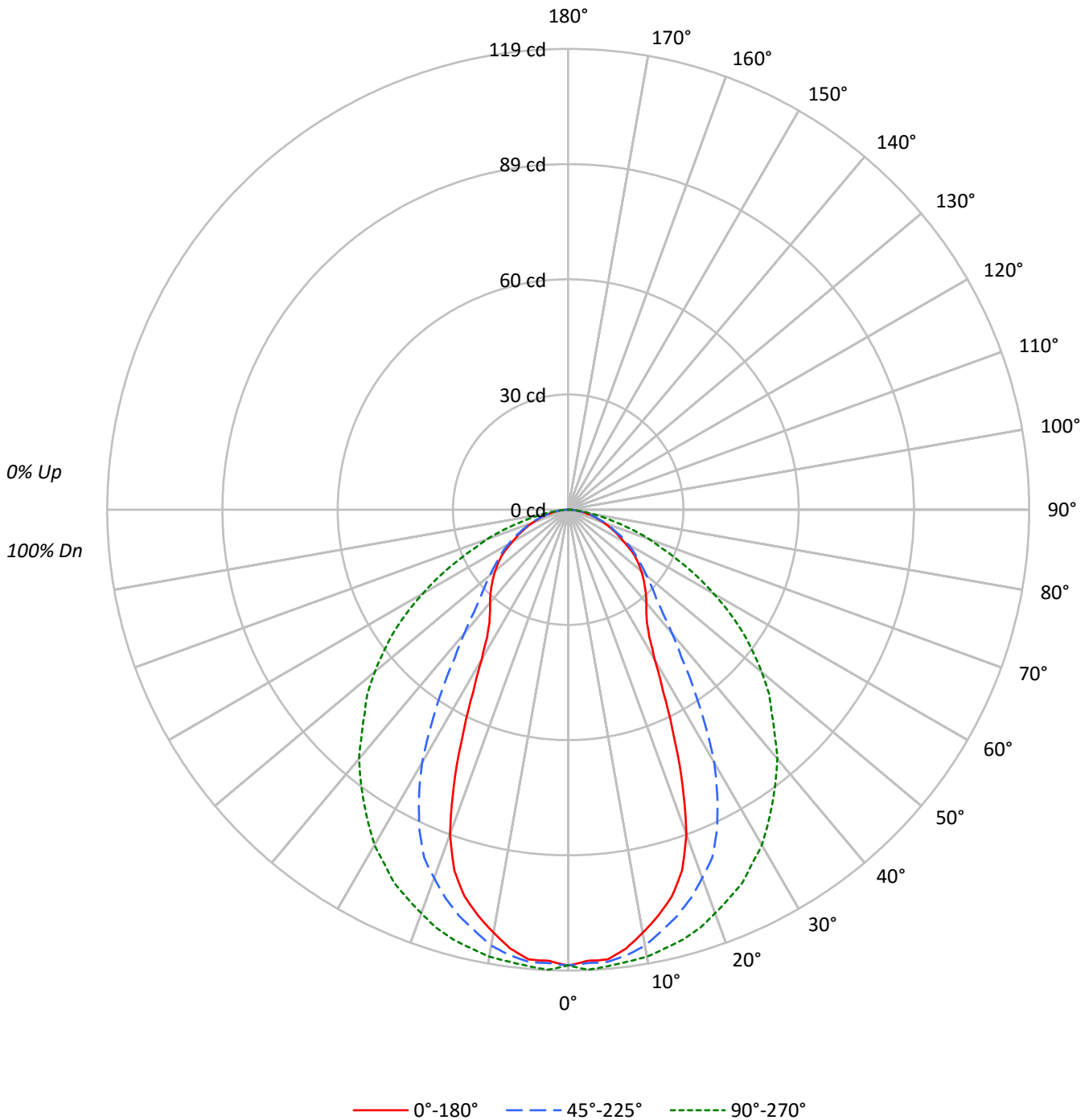
Input Watts (W): 7.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	6950	6950	6950
5°	6911	6947	7012
10°	6649	6853	7027
15°	6321	6639	7024
20°	5605	6359	6969
25°	4209	5922	6926
30°	3041	5141	6818
35°	2552	4080	6632
40°	2420	3214	6475
45°	2338	2672	6205
50°	2260	2416	5989
55°	2172	2234	5652
60°	1960	2090	5125
65°	1830	1914	4471
70°	1675	1778	3850
75°	1574	1574	2989
80°	1360	1360	2142
85°	1152	1152	1558



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.1	5.3
10°-20°	30.5	14.7
20°-30°	40.1	19.3
30°-40°	38.3	18.4
40°-50°	33.5	16.1
50°-60°	26.5	12.7
60°-70°	17.4	8.4
70°-80°	8.6	4.1
80°-90°	2.2	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°	81.7	39.2
0°-40°	119.9	57.6
0°-60°	179.9	86.4
0°-90°	208.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	208.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	118	118	118	118	118	
5°	117	116	117	118	118	11
15°	103	105	109	113	115	29
25°	65	73	91	101	106	30
35°	35	38	57	85	92	23
45°	28	28	32	62	74	22
55°	21	21	22	37	55	19
65°	13	13	14	20	32	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°	117.7	117.7	117.7	117.7	117.7	117.7	117.7	117.7	117.7	117.7	117.7
2.5°	116.6	116.6	116.6	116.6	116.6	116.6	116.6	117.2	117.2	117.2	117.2
5°	116.6	116.6	116.6	116.0	116.0	116.0	116.6	116.6	116.6	117.2	117.2
7.5°	114.3	114.9	114.3	114.3	114.9	114.9	114.9	115.4	115.4	116.0	116.0
10°	110.9	110.9	111.4	111.4	111.4	112.0	112.0	113.2	113.7	114.3	114.3
12.5°	107.4	107.4	107.4	108.0	108.0	108.6	109.2	109.7	110.9	111.4	112.0
15°	103.4	103.4	104.0	104.0	104.6	105.2	105.7	106.9	107.4	108.6	109.7
17.5°	97.7	98.3	98.3	98.9	100.0	100.6	101.7	102.9	104.0	105.2	106.3
20°	89.2	89.2	90.3	91.4	92.6	94.3	96.0	97.7	99.4	101.2	102.9
22.5°	77.2	77.7	78.9	80.6	82.9	85.7	88.0	91.4	94.3	97.2	98.9
25°	64.6	65.2	66.3	68.0	70.9	74.9	78.3	82.9	86.9	90.9	94.3
27.5°	53.2	53.7	54.3	56.6	59.4	62.9	67.4	72.6	78.3	83.4	88.6
30°	44.6	45.2	45.7	46.9	49.2	52.6	56.6	62.3	68.6	75.4	81.7
32.5°	38.9	38.9	39.4	40.6	41.7	44.0	47.4	52.0	58.3	65.7	73.2
35°	35.4	35.4	36.0	36.0	37.1	38.3	40.6	44.6	49.2	56.6	64.6
37.5°	33.1	33.1	33.1	33.7	33.7	34.9	36.0	38.3	42.3	48.0	56.0
40°	31.4	31.4	31.4	31.4	31.4	32.0	33.1	34.3	37.1	41.7	47.4
42.5°	29.7	29.7	29.7	29.7	29.7	30.3	30.3	31.4	33.1	36.0	41.2
45°	28.0	28.0	28.0	28.0	28.0	28.0	28.6	29.1	30.3	32.0	35.4
47.5°	26.3	26.3	26.3	26.3	26.3	26.3	26.9	26.9	27.4	29.1	31.4
50°	24.6	24.6	24.6	24.6	24.6	24.6	24.6	25.1	25.1	26.3	28.0
52.5°	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	23.4	24.0	25.1
55°	21.1	21.1	21.1	21.1	21.1	21.1	21.1	21.1	21.1	21.7	22.9
57.5°	18.9	18.9	18.9	18.9	18.9	19.4	19.4	19.4	19.4	20.0	20.6
60°	16.6	16.6	16.6	16.6	17.1	17.1	17.7	17.7	17.1	17.7	18.3
62.5°	14.9	14.9	14.9	14.9	14.9	15.4	15.4	15.4	15.4	16.0	16.0
65°	13.1	13.1	13.1	13.1	13.1	13.1	13.7	13.7	13.7	13.7	14.3
67.5°	11.4	11.4	11.4	11.4	11.4	11.4	11.4	12.0	12.0	12.0	12.0
70°	9.7	9.7	9.7	9.7	9.7	9.7	9.7	10.3	10.3	10.3	10.3
72.5°	8.0	8.6	8.6	8.0	8.0	8.0	8.0	8.6	8.6	8.6	8.6
75°	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
77.5°	5.1	5.7	5.7	5.1	5.1	5.1	5.1	5.1	5.7	5.7	5.7
80°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
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°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
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°	117.7	117.7	117.7	117.7	117.7	117.7	117.7	117.7
2.5°	117.2	117.7	117.7	117.7	118.3	118.3	118.9	118.9
5°	117.2	117.2	117.7	117.7	117.7	117.7	118.3	118.3
7.5°	116.6	116.6	116.6	117.2	117.2	117.2	117.7	117.7
10°	114.9	115.4	116.0	116.0	116.6	117.2	117.2	117.2
12.5°	113.2	113.7	114.3	114.9	115.4	116.0	116.0	116.0
15°	110.3	111.4	112.6	113.2	113.7	114.3	114.9	114.9
17.5°	107.4	109.2	110.3	111.4	112.0	112.6	113.2	113.2
20°	104.0	105.7	107.4	108.6	109.7	110.9	110.9	110.9
22.5°	100.6	102.3	104.0	105.7	107.4	108.0	108.6	108.6
25°	96.6	98.3	100.6	102.3	104.0	105.7	106.3	106.3
27.5°	92.0	94.9	97.2	98.9	101.2	102.3	103.4	102.9
30°	86.3	90.3	92.6	94.9	97.2	98.9	100.0	100.0
32.5°	80.0	85.2	88.0	90.9	93.2	94.9	96.0	96.0
35°	72.6	79.4	83.4	86.3	88.6	90.9	92.0	92.0
37.5°	64.6	72.6	78.3	81.7	84.0	86.9	88.0	88.0
40°	56.0	65.2	72.0	76.6	79.4	82.3	83.4	84.0
42.5°	48.0	57.7	65.7	70.9	74.3	77.2	78.9	78.9
45°	41.7	50.3	58.9	65.2	69.2	72.0	74.3	74.3
47.5°	36.0	43.4	52.0	59.4	64.0	67.4	69.7	70.3
50°	31.4	37.1	45.7	53.7	58.9	62.3	64.6	65.2
52.5°	27.4	32.0	39.4	47.4	53.2	57.2	59.4	60.0
55°	24.6	28.0	33.7	41.2	48.0	51.4	53.7	54.9
57.5°	21.7	24.6	29.1	36.0	42.3	45.7	48.0	49.2
60°	19.4	21.1	25.1	30.9	36.6	40.6	42.9	43.4
62.5°	17.1	18.3	21.1	25.7	31.4	34.9	37.1	37.7
65°	14.9	16.0	18.3	21.7	26.3	29.7	31.4	32.0
67.5°	12.6	13.7	15.4	17.7	21.1	24.0	25.7	26.3
70°	10.9	11.4	12.6	14.3	17.1	19.4	21.1	22.3
72.5°	9.1	9.1	10.3	11.4	13.1	14.9	16.6	17.7
75°	7.4	7.4	8.0	9.1	10.3	11.4	12.6	13.1
77.5°	5.7	5.7	6.3	6.9	7.4	8.0	9.1	9.7
80°	4.0	4.0	4.6	4.6	5.1	5.7	6.3	6.3
82.5°	2.9	2.9	2.9	2.9	3.4	3.4	4.0	4.0
85°	1.7	1.7	1.7	1.7	1.7	1.7	2.3	2.3
87.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)