

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: P273337

Luminaire Tested: **0.03-1W-830-55-ID-STD-UNV-AN-3F0**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P273337
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-830-55-ID-STD-UNV-AN-3F0
Description: iO LIGHTING SERIES .75 LINEAR LED LUMINAIRE, 55 DEGREE OPTIC.
STANDARD OUTPUT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 200.0 lumens
Efficiency: N/A
Efficacy: 26.7 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

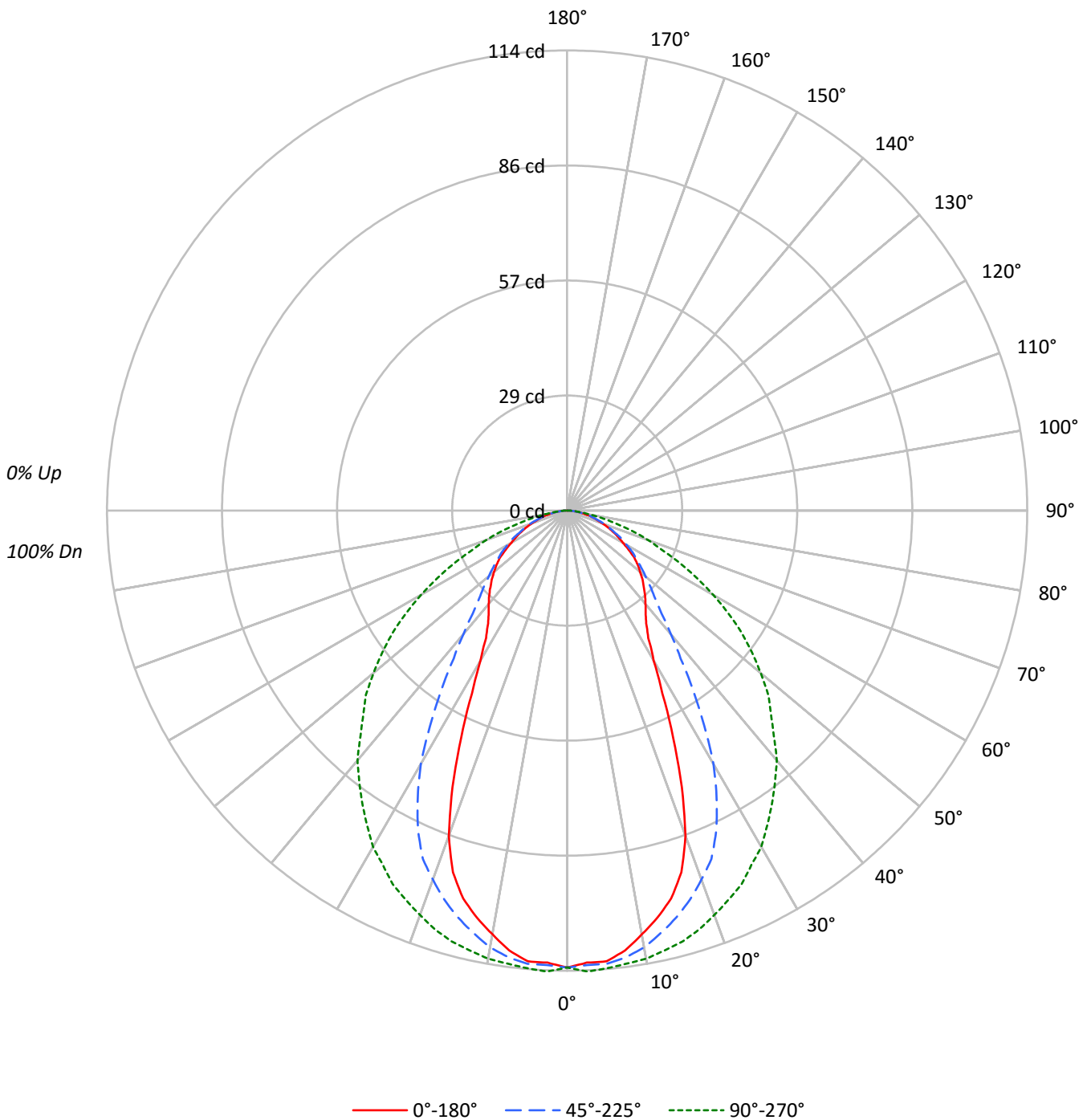
Input Watts (W): 7.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	73	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	46	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°	6684	6684	6684
5°	6645	6680	6745
10°	6392	6589	6757
15°	6083	6382	6755
20°	5385	6114	6698
25°	4046	5694	6659
30°	2925	4943	6559
35°	2458	3921	6379
40°	2328	3091	6228
45°	2246	2572	5962
50°	2168	2324	5751
55°	2090	2152	5436
60°	1878	2008	4936
65°	1760	1844	4303
70°	1606	1709	3695
75°	1506	1506	2875
80°	1292	1292	2040
85°	1084	1084	1490



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.6	5.3
10°-20°	29.3	14.7
20°-30°	38.5	19.3
30°-40°	36.8	18.4
40°-50°	32.2	16.1
50°-60°	25.4	12.7
60°-70°	16.7	8.4
70°-80°	8.3	4.1
80°-90°	2.1	1.0
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°	78.5	39.3
0°-40°	115.3	57.7
0°-60°	173.0	86.5
0°-90°	200.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	200.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	113	113	113	113	113	
5°	112	112	113	113	114	11
15°	100	101	104	109	110	28
25°	62	70	87	98	102	29
35°	34	36	54	82	88	22
45°	27	27	31	60	71	21
55°	20	20	21	36	53	18
65°	13	13	13	19	31	12
75°	7	7	7	8	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°	113.2	113.2	113.2	113.2	113.2	113.2	113.2	113.2	113.2	113.2	113.2
2.5°	112.1	112.1	112.1	112.1	112.1	112.1	112.1	112.7	112.7	112.7	112.7
5°	112.1	112.1	112.1	111.6	111.6	111.6	112.1	112.1	112.1	112.7	112.7
7.5°	109.9	110.5	109.9	109.9	110.5	110.5	110.5	111.0	111.0	111.6	111.6
10°	106.6	106.6	107.2	107.2	107.2	107.7	107.7	108.8	109.4	109.9	109.9
12.5°	103.3	103.3	103.3	103.9	103.9	104.4	105.0	105.5	106.6	107.2	107.7
15°	99.5	99.5	100.0	100.0	100.6	101.1	101.7	102.8	103.3	104.4	105.5
17.5°	94.0	94.5	94.5	95.1	96.2	96.7	97.8	98.9	100.0	101.1	102.2
20°	85.7	85.7	86.8	87.9	89.0	90.7	92.3	94.0	95.6	97.3	98.9
22.5°	74.2	74.7	75.8	77.5	79.7	82.4	84.6	87.9	90.7	93.4	95.1
25°	62.1	62.6	63.7	65.4	68.1	72.0	75.3	79.7	83.5	87.4	90.7
27.5°	51.1	51.7	52.2	54.4	57.2	60.5	64.8	69.8	75.3	80.2	85.2
30°	42.9	43.4	44.0	45.1	47.3	50.6	54.4	59.9	65.9	72.5	78.6
32.5°	37.4	37.4	37.9	39.0	40.1	42.3	45.6	50.0	56.1	63.2	70.3
35°	34.1	34.1	34.6	34.6	35.7	36.8	39.0	42.9	47.3	54.4	62.1
37.5°	31.9	31.9	31.9	32.4	32.4	33.5	34.6	36.8	40.7	46.2	53.9
40°	30.2	30.2	30.2	30.2	30.2	30.8	31.9	33.0	35.7	40.1	45.6
42.5°	28.6	28.6	28.6	28.6	28.6	29.1	29.1	30.2	31.9	34.6	39.6
45°	26.9	26.9	26.9	26.9	26.9	26.9	27.5	28.0	29.1	30.8	34.1
47.5°	25.3	25.3	25.3	25.3	25.3	25.3	25.8	25.8	26.4	28.0	30.2
50°	23.6	23.6	23.6	23.6	23.6	23.6	23.6	24.2	24.2	25.3	26.9
52.5°	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.5	23.1	24.2
55°	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.9	22.0
57.5°	18.1	18.1	18.1	18.1	18.1	18.7	18.7	18.7	18.7	19.2	19.8
60°	15.9	15.9	15.9	15.9	16.5	16.5	17.0	17.0	16.5	17.0	17.6
62.5°	14.3	14.3	14.3	14.3	14.3	14.8	14.8	14.8	14.8	15.4	15.4
65°	12.6	12.6	12.6	12.6	12.6	12.6	13.2	13.2	13.2	13.2	13.7
67.5°	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.5	11.5	11.5	11.5
70°	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.9	9.9	9.9	9.9
72.5°	7.7	8.2	8.2	7.7	7.7	7.7	7.7	8.2	8.2	8.2	8.2
75°	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6
77.5°	4.9	5.5	5.5	4.9	4.9	4.9	4.9	4.9	5.5	5.5	5.5
80°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
82.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
85°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
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°	113.2	113.2	113.2	113.2	113.2	113.2	113.2	113.2
2.5°	112.7	113.2	113.2	113.2	113.8	113.8	114.3	114.3
5°	112.7	112.7	113.2	113.2	113.2	113.2	113.8	113.8
7.5°	112.1	112.1	112.1	112.7	112.7	112.7	113.2	113.2
10°	110.5	111.0	111.6	111.6	112.1	112.7	112.7	112.7
12.5°	108.8	109.4	109.9	110.5	111.0	111.6	111.6	111.6
15°	106.1	107.2	108.3	108.8	109.4	109.9	110.5	110.5
17.5°	103.3	105.0	106.1	107.2	107.7	108.3	108.8	108.8
20°	100.0	101.7	103.3	104.4	105.5	106.6	106.6	106.6
22.5°	96.7	98.4	100.0	101.7	103.3	103.9	104.4	104.4
25°	92.9	94.5	96.7	98.4	100.0	101.7	102.2	102.2
27.5°	88.5	91.2	93.4	95.1	97.3	98.4	99.5	98.9
30°	83.0	86.8	89.0	91.2	93.4	95.1	96.2	96.2
32.5°	76.9	81.9	84.6	87.4	89.6	91.2	92.3	92.3
35°	69.8	76.4	80.2	83.0	85.2	87.4	88.5	88.5
37.5°	62.1	69.8	75.3	78.6	80.8	83.5	84.6	84.6
40°	53.9	62.6	69.2	73.6	76.4	79.1	80.2	80.8
42.5°	46.2	55.5	63.2	68.1	71.4	74.2	75.8	75.8
45°	40.1	48.4	56.6	62.6	66.5	69.2	71.4	71.4
47.5°	34.6	41.8	50.0	57.2	61.5	64.8	67.0	67.6
50°	30.2	35.7	44.0	51.7	56.6	59.9	62.1	62.6
52.5°	26.4	30.8	37.9	45.6	51.1	55.0	57.2	57.7
55°	23.6	26.9	32.4	39.6	46.2	49.5	51.7	52.8
57.5°	20.9	23.6	28.0	34.6	40.7	44.0	46.2	47.3
60°	18.7	20.3	24.2	29.7	35.2	39.0	41.2	41.8
62.5°	16.5	17.6	20.3	24.7	30.2	33.5	35.7	36.3
65°	14.3	15.4	17.6	20.9	25.3	28.6	30.2	30.8
67.5°	12.1	13.2	14.8	17.0	20.3	23.1	24.7	25.3
70°	10.4	11.0	12.1	13.7	16.5	18.7	20.3	21.4
72.5°	8.8	8.8	9.9	11.0	12.6	14.3	15.9	17.0
75°	7.1	7.1	7.7	8.8	9.9	11.0	12.1	12.6
77.5°	5.5	5.5	6.0	6.6	7.1	7.7	8.8	9.3
80°	3.8	3.8	4.4	4.4	4.9	5.5	6.0	6.0
82.5°	2.7	2.7	2.7	2.7	3.3	3.3	3.8	3.8
85°	1.6	1.6	1.6	1.6	1.6	1.6	2.2	2.2
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)