

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: P273352

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P273352
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-827-55-ID-STD-UNV-AN-3F0
Description: iO LIGHTING SERIES .75 LINEAR LED LUMINAIRE, 55 DEGREE OPTIC.
HIGH OUTPUT
Light Source: 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 450.0 lumens
Efficiency: N/A
Efficacy: 36.0 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

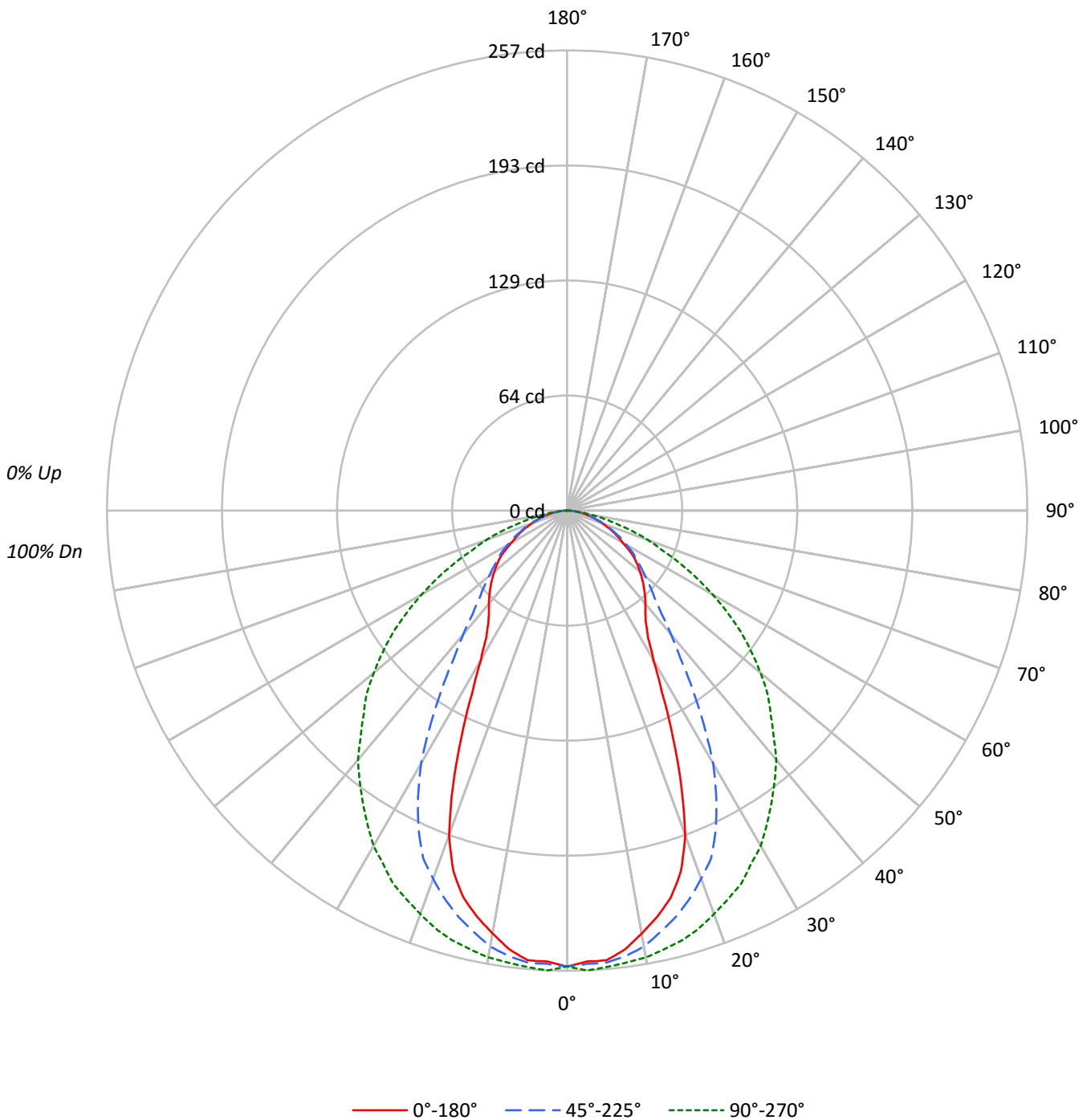
Input Watts (W): 12.5
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	15034	15034	15034
5°	14943	15020	15162
10°	14378	14822	15194
15°	13675	14353	15185
20°	12115	13749	15068
25°	9102	12802	14978
30°	6573	11121	14748
35°	5522	8823	14345
40°	5242	6953	14006
45°	5060	5779	13419
50°	4878	5227	12943
55°	4705	4838	12209
60°	4228	4523	11089
65°	3968	4150	9669
70°	3626	3833	8321
75°	3377	3377	6479
80°	2958	2958	4625
85°	2507	2507	3320



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.9	5.3
10°-20°	66.0	14.7
20°-30°	86.7	19.3
30°-40°	82.8	18.4
40°-50°	72.4	16.1
50°-60°	57.2	12.7
60°-70°	37.6	8.4
70°-80°	18.6	4.1
80°-90°	4.8	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°	176.6	39.2
0°-40°	259.4	57.6
0°-60°	389.0	86.4
0°-90°	450.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	450.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	255	255	255	255	255	
5°	252	251	253	255	256	24
15°	224	227	235	244	248	62
25°	140	158	196	219	230	64
35°	77	82	122	184	199	49
45°	61	61	69	134	161	47
55°	46	46	47	81	119	40
65°	28	28	30	43	69	28
75°	15	15	15	19	28	15
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°	254.6	254.6	254.6	254.6	254.6	254.6	254.6	254.6	254.6	254.6	254.6
2.5°	252.1	252.1	252.1	252.1	252.1	252.1	252.1	253.4	253.4	253.4	253.4
5°	252.1	252.1	252.1	250.9	250.9	250.9	252.1	252.1	252.1	253.4	253.4
7.5°	247.2	248.4	247.2	247.2	248.4	248.4	248.4	249.7	249.7	250.9	250.9
10°	239.8	239.8	241.0	241.0	241.0	242.2	242.2	244.7	245.9	247.2	247.2
12.5°	232.4	232.4	232.4	233.6	233.6	234.8	236.1	237.3	239.8	241.0	242.2
15°	223.7	223.7	224.9	224.9	226.2	227.4	228.6	231.1	232.4	234.8	237.3
17.5°	211.3	212.6	212.6	213.8	216.3	217.5	220.0	222.5	224.9	227.4	229.9
20°	192.8	192.8	195.3	197.7	200.2	203.9	207.6	211.3	215.0	218.8	222.5
22.5°	166.8	168.1	170.6	174.3	179.2	185.4	190.3	197.7	203.9	210.1	213.8
25°	139.7	140.9	143.4	147.1	153.3	161.9	169.3	179.2	187.9	196.5	203.9
27.5°	114.9	116.2	117.4	122.4	128.5	136.0	145.8	157.0	169.3	180.4	191.6
30°	96.4	97.6	98.9	101.3	106.3	113.7	122.4	134.7	148.3	163.1	176.7
32.5°	84.0	84.0	85.3	87.7	90.2	95.2	102.6	112.5	126.1	142.1	158.2
35°	76.6	76.6	77.9	77.9	80.3	82.8	87.7	96.4	106.3	122.4	139.7
37.5°	71.7	71.7	71.7	72.9	72.9	75.4	77.9	82.8	91.5	103.8	121.1
40°	68.0	68.0	68.0	68.0	68.0	69.2	71.7	74.2	80.3	90.2	102.6
42.5°	64.3	64.3	64.3	64.3	64.3	65.5	65.5	68.0	71.7	77.9	89.0
45°	60.6	60.6	60.6	60.6	60.6	60.6	61.8	63.0	65.5	69.2	76.6
47.5°	56.9	56.9	56.9	56.9	56.9	56.9	58.1	58.1	59.3	63.0	68.0
50°	53.1	53.1	53.1	53.1	53.1	53.1	53.1	54.4	54.4	56.9	60.6
52.5°	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	50.7	51.9	54.4
55°	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	47.0	49.4
57.5°	40.8	40.8	40.8	40.8	40.8	42.0	42.0	42.0	42.0	43.3	44.5
60°	35.8	35.8	35.8	35.8	37.1	37.1	38.3	38.3	37.1	38.3	39.5
62.5°	32.1	32.1	32.1	32.1	32.1	33.4	33.4	33.4	33.4	34.6	34.6
65°	28.4	28.4	28.4	28.4	28.4	28.4	29.7	29.7	29.7	29.7	30.9
67.5°	24.7	24.7	24.7	24.7	24.7	24.7	24.7	26.0	26.0	26.0	26.0
70°	21.0	21.0	21.0	21.0	21.0	21.0	21.0	22.2	22.2	22.2	22.2
72.5°	17.3	18.5	18.5	17.3	17.3	17.3	17.3	18.5	18.5	18.5	18.5
75°	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8
77.5°	11.1	12.4	12.4	11.1	11.1	11.1	11.1	11.1	12.4	12.4	12.4
80°	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7
82.5°	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
85°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
87.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
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°	254.6	254.6	254.6	254.6	254.6	254.6	254.6	254.6
2.5°	253.4	254.6	254.6	254.6	255.8	255.8	257.1	257.1
5°	253.4	253.4	254.6	254.6	254.6	254.6	255.8	255.8
7.5°	252.1	252.1	252.1	253.4	253.4	253.4	254.6	254.6
10°	248.4	249.7	250.9	250.9	252.1	253.4	253.4	253.4
12.5°	244.7	245.9	247.2	248.4	249.7	250.9	250.9	250.9
15°	238.5	241.0	243.5	244.7	245.9	247.2	248.4	248.4
17.5°	232.4	236.1	238.5	241.0	242.2	243.5	244.7	244.7
20°	224.9	228.6	232.4	234.8	237.3	239.8	239.8	239.8
22.5°	217.5	221.2	224.9	228.6	232.4	233.6	234.8	234.8
25°	208.9	212.6	217.5	221.2	224.9	228.6	229.9	229.9
27.5°	199.0	205.2	210.1	213.8	218.8	221.2	223.7	222.5
30°	186.6	195.3	200.2	205.2	210.1	213.8	216.3	216.3
32.5°	173.0	184.2	190.3	196.5	201.5	205.2	207.6	207.6
35°	157.0	171.8	180.4	186.6	191.6	196.5	199.0	199.0
37.5°	139.7	157.0	169.3	176.7	181.7	187.9	190.3	190.3
40°	121.1	140.9	155.7	165.6	171.8	178.0	180.4	181.7
42.5°	103.8	124.8	142.1	153.3	160.7	166.8	170.6	170.6
45°	90.2	108.8	127.3	140.9	149.5	155.7	160.7	160.7
47.5°	77.9	93.9	112.5	128.5	138.4	145.8	150.8	152.0
50°	68.0	80.3	98.9	116.2	127.3	134.7	139.7	140.9
52.5°	59.3	69.2	85.3	102.6	114.9	123.6	128.5	129.8
55°	53.1	60.6	72.9	89.0	103.8	111.2	116.2	118.6
57.5°	47.0	53.1	63.0	77.9	91.5	98.9	103.8	106.3
60°	42.0	45.7	54.4	66.7	79.1	87.7	92.7	93.9
62.5°	37.1	39.5	45.7	55.6	68.0	75.4	80.3	81.6
65°	32.1	34.6	39.5	47.0	56.9	64.3	68.0	69.2
67.5°	27.2	29.7	33.4	38.3	45.7	51.9	55.6	56.9
70°	23.5	24.7	27.2	30.9	37.1	42.0	45.7	48.2
72.5°	19.8	19.8	22.2	24.7	28.4	32.1	35.8	38.3
75°	16.1	16.1	17.3	19.8	22.2	24.7	27.2	28.4
77.5°	12.4	12.4	13.6	14.8	16.1	17.3	19.8	21.0
80°	8.7	8.7	9.9	9.9	11.1	12.4	13.6	13.6
82.5°	6.2	6.2	6.2	6.2	7.4	7.4	8.7	8.7
85°	3.7	3.7	3.7	3.7	3.7	3.7	4.9	4.9
87.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)