

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: P273372

Luminaire Tested: **0.03-5W-827-55-ID-STD-UNV-AN-3F0**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P273372
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: 0.03-5W-827-55-ID-STD-UNV-AN-3F0
Description: iO LIGHTING SERIES .75 LINEAR LED LUMINAIRE, 55 DEGREE OPTIC.
VERY HIGH OUTPUT
Light Source: 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 680.9 lumens
Efficiency: N/A
Efficacy: 37.2 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

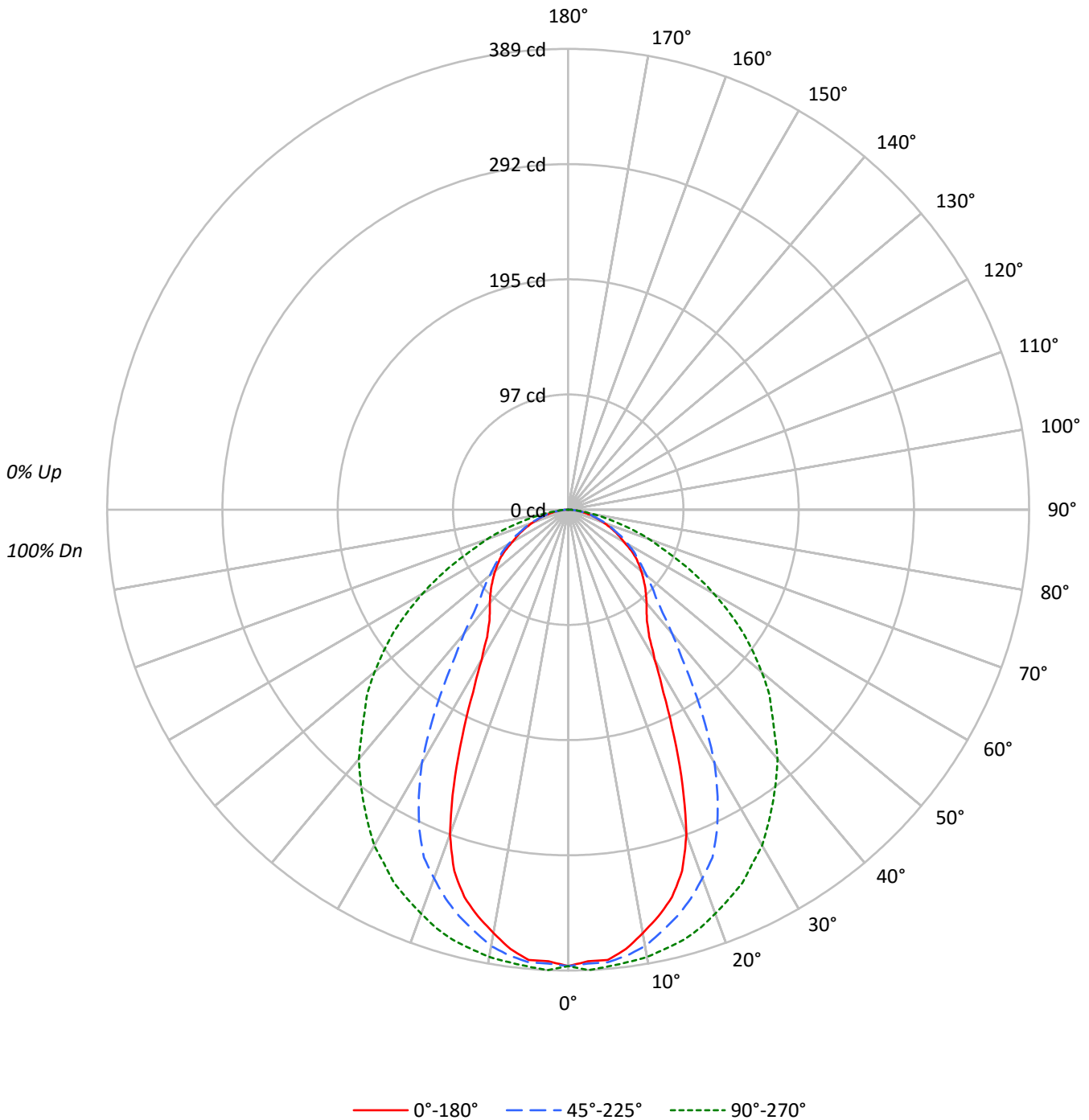
Input Watts (W): 18.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	22745	22745	22745
5°	22613	22725	22945
10°	21753	22425	22988
15°	20693	21720	22979
20°	18330	20799	22797
25°	13767	19370	22660
30°	9948	16827	22316
35°	8355	13343	21704
40°	7932	10522	21190
45°	7649	8743	20300
50°	7386	7900	19585
55°	7124	7320	18479
60°	6401	6850	16781
65°	6008	6273	14629
70°	5490	5818	12586
75°	5110	5110	9810
80°	4455	4455	7005
85°	3794	3794	5081



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.2	5.3
10°-20°	99.8	14.7
20°-30°	131.1	19.3
30°-40°	125.3	18.4
40°-50°	109.5	16.1
50°-60°	86.6	12.7
60°-70°	57.0	8.4
70°-80°	28.1	4.1
80°-90°	7.2	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°	267.2	39.2
0°-40°	392.5	57.6
0°-60°	588.6	86.4
0°-90°	680.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	680.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	385	385	385	385	385	
5°	382	380	383	385	387	36
15°	338	343	355	369	376	94
25°	211	238	297	332	348	97
35°	116	123	185	278	301	74
45°	92	92	105	203	243	71
55°	69	69	71	122	180	61
65°	43	43	45	65	105	43
75°	22	22	22	28	43	23
85°	6	6	6	6	8	7
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°	385.2	385.2	385.2	385.2	385.2	385.2	385.2	385.2	385.2	385.2	385.2
2.5°	381.5	381.5	381.5	381.5	381.5	381.5	381.5	383.4	383.4	383.4	383.4
5°	381.5	381.5	381.5	379.6	379.6	379.6	381.5	381.5	381.5	383.4	383.4
7.5°	374.0	375.9	374.0	374.0	375.9	375.9	375.9	377.7	377.7	379.6	379.6
10°	362.8	362.8	364.7	364.7	364.7	366.5	366.5	370.3	372.1	374.0	374.0
12.5°	351.6	351.6	351.6	353.4	353.4	355.3	357.2	359.0	362.8	364.7	366.5
15°	338.5	338.5	340.3	340.3	342.2	344.1	346.0	349.7	351.6	355.3	359.0
17.5°	319.8	321.6	321.6	323.5	327.3	329.1	332.9	336.6	340.3	344.1	347.8
20°	291.7	291.7	295.5	299.2	302.9	308.6	314.2	319.8	325.4	331.0	336.6
22.5°	252.5	254.3	258.1	263.7	271.2	280.5	288.0	299.2	308.6	317.9	323.5
25°	211.3	213.2	216.9	222.5	231.9	245.0	256.2	271.2	284.2	297.3	308.6
27.5°	173.9	175.8	177.7	185.1	194.5	205.7	220.7	237.5	256.2	273.0	289.9
30°	145.9	147.7	149.6	153.3	160.8	172.0	185.1	203.8	224.4	246.8	267.4
32.5°	127.2	127.2	129.0	132.8	136.5	144.0	155.2	170.2	190.7	215.1	239.4
35°	115.9	115.9	117.8	117.8	121.6	125.3	132.8	145.9	160.8	185.1	211.3
37.5°	108.5	108.5	108.5	110.3	110.3	114.1	117.8	125.3	138.4	157.1	183.3
40°	102.9	102.9	102.9	102.9	102.9	104.7	108.5	112.2	121.6	136.5	155.2
42.5°	97.2	97.2	97.2	97.2	97.2	99.1	99.1	102.9	108.5	117.8	134.6
45°	91.6	91.6	91.6	91.6	91.6	91.6	93.5	95.4	99.1	104.7	115.9
47.5°	86.0	86.0	86.0	86.0	86.0	86.0	87.9	87.9	89.8	95.4	102.9
50°	80.4	80.4	80.4	80.4	80.4	80.4	80.4	82.3	82.3	86.0	91.6
52.5°	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	76.7	78.5	82.3
55°	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	71.1	74.8
57.5°	61.7	61.7	61.7	61.7	61.7	63.6	63.6	63.6	63.6	65.5	67.3
60°	54.2	54.2	54.2	54.2	56.1	56.1	58.0	58.0	56.1	58.0	59.8
62.5°	48.6	48.6	48.6	48.6	48.6	50.5	50.5	50.5	50.5	52.4	52.4
65°	43.0	43.0	43.0	43.0	43.0	43.0	44.9	44.9	44.9	44.9	46.8
67.5°	37.4	37.4	37.4	37.4	37.4	37.4	37.4	39.3	39.3	39.3	39.3
70°	31.8	31.8	31.8	31.8	31.8	31.8	31.8	33.7	33.7	33.7	33.7
72.5°	26.2	28.1	28.1	26.2	26.2	26.2	26.2	28.1	28.1	28.1	28.1
75°	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4
77.5°	16.8	18.7	18.7	16.8	16.8	16.8	16.8	16.8	18.7	18.7	18.7
80°	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1
82.5°	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4
85°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
87.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
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°	385.2	385.2	385.2	385.2	385.2	385.2	385.2	385.2
2.5°	383.4	385.2	385.2	385.2	387.1	387.1	389.0	389.0
5°	383.4	383.4	385.2	385.2	385.2	385.2	387.1	387.1
7.5°	381.5	381.5	381.5	383.4	383.4	383.4	385.2	385.2
10°	375.9	377.7	379.6	379.6	381.5	383.4	383.4	383.4
12.5°	370.3	372.1	374.0	375.9	377.7	379.6	379.6	379.6
15°	360.9	364.7	368.4	370.3	372.1	374.0	375.9	375.9
17.5°	351.6	357.2	360.9	364.7	366.5	368.4	370.3	370.3
20°	340.3	346.0	351.6	355.3	359.0	362.8	362.8	362.8
22.5°	329.1	334.7	340.3	346.0	351.6	353.4	355.3	355.3
25°	316.0	321.6	329.1	334.7	340.3	346.0	347.8	347.8
27.5°	301.1	310.4	317.9	323.5	331.0	334.7	338.5	336.6
30°	282.4	295.5	302.9	310.4	317.9	323.5	327.3	327.3
32.5°	261.8	278.6	288.0	297.3	304.8	310.4	314.2	314.2
35°	237.5	259.9	273.0	282.4	289.9	297.3	301.1	301.1
37.5°	211.3	237.5	256.2	267.4	274.9	284.2	288.0	288.0
40°	183.3	213.2	235.6	250.6	259.9	269.3	273.0	274.9
42.5°	157.1	188.9	215.1	231.9	243.1	252.5	258.1	258.1
45°	136.5	164.6	192.6	213.2	226.3	235.6	243.1	243.1
47.5°	117.8	142.1	170.2	194.5	209.4	220.7	228.1	230.0
50°	102.9	121.6	149.6	175.8	192.6	203.8	211.3	213.2
52.5°	89.8	104.7	129.0	155.2	173.9	187.0	194.5	196.4
55°	80.4	91.6	110.3	134.6	157.1	168.3	175.8	179.5
57.5°	71.1	80.4	95.4	117.8	138.4	149.6	157.1	160.8
60°	63.6	69.2	82.3	101.0	119.7	132.8	140.3	142.1
62.5°	56.1	59.8	69.2	84.2	102.9	114.1	121.6	123.4
65°	48.6	52.4	59.8	71.1	86.0	97.2	102.9	104.7
67.5°	41.1	44.9	50.5	58.0	69.2	78.5	84.2	86.0
70°	35.5	37.4	41.1	46.8	56.1	63.6	69.2	72.9
72.5°	29.9	29.9	33.7	37.4	43.0	48.6	54.2	58.0
75°	24.3	24.3	26.2	29.9	33.7	37.4	41.1	43.0
77.5°	18.7	18.7	20.6	22.4	24.3	26.2	29.9	31.8
80°	13.1	13.1	15.0	15.0	16.8	18.7	20.6	20.6
82.5°	9.4	9.4	9.4	9.4	11.2	11.2	13.1	13.1
85°	5.6	5.6	5.6	5.6	5.6	5.6	7.5	7.5
87.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)