

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: P273362

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P273362
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-835-55-ID-STD-UNV-AN-3F0
Description: iO LIGHTING SERIES .75 LINEAR LED LUMINAIRE, 55 DEGREE OPTIC.
HIGH OUTPUT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 500.5 lumens
Efficiency: N/A
Efficacy: 40.0 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

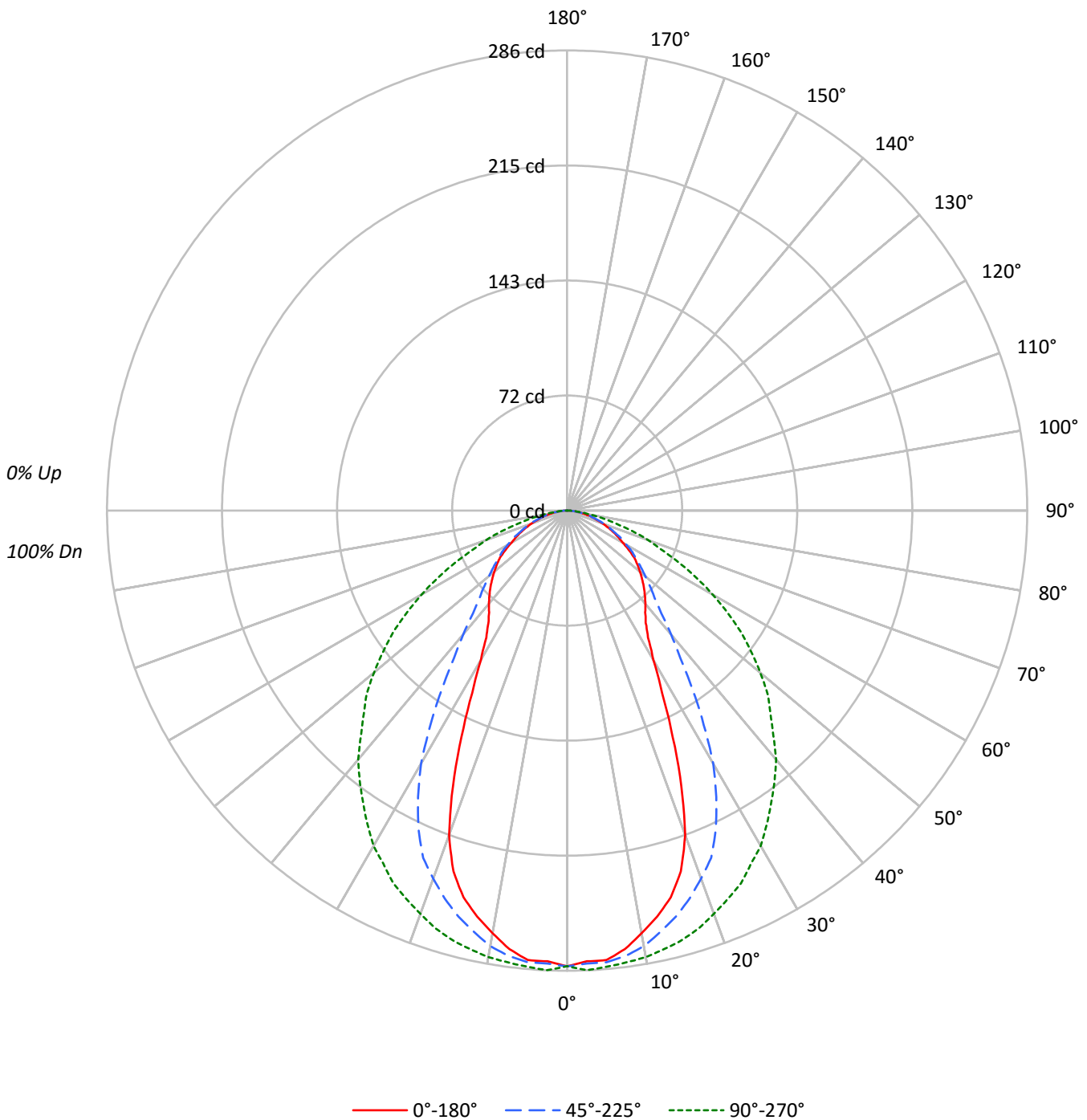
Input Watts (W): 12.5
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	16722	16722	16722
5°	16620	16703	16869
10°	15991	16483	16896
15°	15209	15967	16890
20°	13479	15288	16759
25°	10118	14242	16659
30°	7309	12375	16405
35°	6142	9811	15952
40°	5827	7739	15578
45°	5628	6430	14923
50°	5429	5806	14395
55°	5240	5374	13589
60°	4712	5031	12341
65°	4415	4611	10758
70°	4040	4264	9254
75°	3764	3764	7209
80°	3264	3264	5135
85°	2778	2778	3726



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.6	5.3
10°-20°	73.4	14.7
20°-30°	96.4	19.3
30°-40°	92.1	18.4
40°-50°	80.5	16.1
50°-60°	63.7	12.7
60°-70°	41.9	8.4
70°-80°	20.7	4.1
80°-90°	5.3	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°	196.4	39.2
0°-40°	288.5	57.6
0°-60°	432.7	86.4
0°-90°	500.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	500.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	283	283	283	283	283	
5°	280	279	282	283	285	26
15°	249	252	261	272	276	69
25°	155	175	219	244	256	71
35°	85	91	136	204	221	55
45°	67	67	77	149	179	52
55°	51	51	52	90	132	45
65°	32	32	33	48	77	31
75°	16	16	16	21	32	17
85°	4	4	4	4	6	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°	283.2	283.2	283.2	283.2	283.2	283.2	283.2	283.2	283.2	283.2	283.2
2.5°	280.4	280.4	280.4	280.4	280.4	280.4	280.4	281.8	281.8	281.8	281.8
5°	280.4	280.4	280.4	279.1	279.1	279.1	280.4	280.4	280.4	281.8	281.8
7.5°	274.9	276.3	274.9	274.9	276.3	276.3	276.3	277.7	277.7	279.1	279.1
10°	266.7	266.7	268.1	268.1	268.1	269.4	269.4	272.2	273.6	274.9	274.9
12.5°	258.4	258.4	258.4	259.8	259.8	261.2	262.6	263.9	266.7	268.1	269.4
15°	248.8	248.8	250.2	250.2	251.6	252.9	254.3	257.1	258.4	261.2	263.9
17.5°	235.1	236.4	236.4	237.8	240.6	241.9	244.7	247.4	250.2	252.9	255.7
20°	214.5	214.5	217.2	220.0	222.7	226.8	231.0	235.1	239.2	243.3	247.4
22.5°	185.6	187.0	189.7	193.8	199.3	206.2	211.7	220.0	226.8	233.7	237.8
25°	155.3	156.7	159.5	163.6	170.5	180.1	188.3	199.3	209.0	218.6	226.8
27.5°	127.8	129.2	130.6	136.1	143.0	151.2	162.2	174.6	188.3	200.7	213.1
30°	107.2	108.6	110.0	112.7	118.2	126.5	136.1	149.8	165.0	181.5	196.6
32.5°	93.5	93.5	94.9	97.6	100.4	105.9	114.1	125.1	140.2	158.1	176.0
35°	85.2	85.2	86.6	86.6	89.4	92.1	97.6	107.2	118.2	136.1	155.3
37.5°	79.7	79.7	79.7	81.1	81.1	83.9	86.6	92.1	101.7	115.5	134.7
40°	75.6	75.6	75.6	75.6	75.6	77.0	79.7	82.5	89.4	100.4	114.1
42.5°	71.5	71.5	71.5	71.5	71.5	72.9	72.9	75.6	79.7	86.6	99.0
45°	67.4	67.4	67.4	67.4	67.4	67.4	68.7	70.1	72.9	77.0	85.2
47.5°	63.2	63.2	63.2	63.2	63.2	63.2	64.6	64.6	66.0	70.1	75.6
50°	59.1	59.1	59.1	59.1	59.1	59.1	59.1	60.5	60.5	63.2	67.4
52.5°	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	56.4	57.7	60.5
55°	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	52.2	55.0
57.5°	45.4	45.4	45.4	45.4	45.4	46.7	46.7	46.7	46.7	48.1	49.5
60°	39.9	39.9	39.9	39.9	41.2	41.2	42.6	42.6	41.2	42.6	44.0
62.5°	35.7	35.7	35.7	35.7	35.7	37.1	37.1	37.1	37.1	38.5	38.5
65°	31.6	31.6	31.6	31.6	31.6	31.6	33.0	33.0	33.0	33.0	34.4
67.5°	27.5	27.5	27.5	27.5	27.5	27.5	27.5	28.9	28.9	28.9	28.9
70°	23.4	23.4	23.4	23.4	23.4	23.4	23.4	24.7	24.7	24.7	24.7
72.5°	19.2	20.6	20.6	19.2	19.2	19.2	19.2	20.6	20.6	20.6	20.6
75°	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5
77.5°	12.4	13.7	13.7	12.4	12.4	12.4	12.4	12.4	13.7	13.7	13.7
80°	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6
82.5°	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
85°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
87.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P273362

CATALOG NUMBER: 0.03-3W-835-55-ID-STD-UNV-AN-3F0

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	283.2	283.2	283.2	283.2	283.2	283.2	283.2	283.2
2.5°	281.8	283.2	283.2	283.2	284.6	284.6	285.9	285.9
5°	281.8	281.8	283.2	283.2	283.2	283.2	284.6	284.6
7.5°	280.4	280.4	280.4	281.8	281.8	281.8	283.2	283.2
10°	276.3	277.7	279.1	279.1	280.4	281.8	281.8	281.8
12.5°	272.2	273.6	274.9	276.3	277.7	279.1	279.1	279.1
15°	265.3	268.1	270.8	272.2	273.6	274.9	276.3	276.3
17.5°	258.4	262.6	265.3	268.1	269.4	270.8	272.2	272.2
20°	250.2	254.3	258.4	261.2	263.9	266.7	266.7	266.7
22.5°	241.9	246.1	250.2	254.3	258.4	259.8	261.2	261.2
25°	232.3	236.4	241.9	246.1	250.2	254.3	255.7	255.7
27.5°	221.3	228.2	233.7	237.8	243.3	246.1	248.8	247.4
30°	207.6	217.2	222.7	228.2	233.7	237.8	240.6	240.6
32.5°	192.5	204.8	211.7	218.6	224.1	228.2	231.0	231.0
35°	174.6	191.1	200.7	207.6	213.1	218.6	221.3	221.3
37.5°	155.3	174.6	188.3	196.6	202.1	209.0	211.7	211.7
40°	134.7	156.7	173.2	184.2	191.1	198.0	200.7	202.1
42.5°	115.5	138.8	158.1	170.5	178.7	185.6	189.7	189.7
45°	100.4	121.0	141.6	156.7	166.3	173.2	178.7	178.7
47.5°	86.6	104.5	125.1	143.0	154.0	162.2	167.7	169.1
50°	75.6	89.4	110.0	129.2	141.6	149.8	155.3	156.7
52.5°	66.0	77.0	94.9	114.1	127.8	137.5	143.0	144.3
55°	59.1	67.4	81.1	99.0	115.5	123.7	129.2	132.0
57.5°	52.2	59.1	70.1	86.6	101.7	110.0	115.5	118.2
60°	46.7	50.9	60.5	74.2	88.0	97.6	103.1	104.5
62.5°	41.2	44.0	50.9	61.9	75.6	83.9	89.4	90.7
65°	35.7	38.5	44.0	52.2	63.2	71.5	75.6	77.0
67.5°	30.2	33.0	37.1	42.6	50.9	57.7	61.9	63.2
70°	26.1	27.5	30.2	34.4	41.2	46.7	50.9	53.6
72.5°	22.0	22.0	24.7	27.5	31.6	35.7	39.9	42.6
75°	17.9	17.9	19.2	22.0	24.7	27.5	30.2	31.6
77.5°	13.7	13.7	15.1	16.5	17.9	19.2	22.0	23.4
80°	9.6	9.6	11.0	11.0	12.4	13.7	15.1	15.1
82.5°	6.9	6.9	6.9	6.9	8.2	8.2	9.6	9.6
85°	4.1	4.1	4.1	4.1	4.1	4.1	5.5	5.5
87.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)