

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: P273382

Luminaire Tested: **0.03-5W-835-55-ID-STD-UNV-AN-3F0**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P273382
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-835-55-ID-STD-UNV-AN-3F0
Description: iO LIGHTING SERIES .75 LINEAR LED LUMINAIRE, 55 DEGREE OPTIC.
VERY HIGH OUTPUT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 757.4 lumens
Efficiency: N/A
Efficacy: 41.4 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

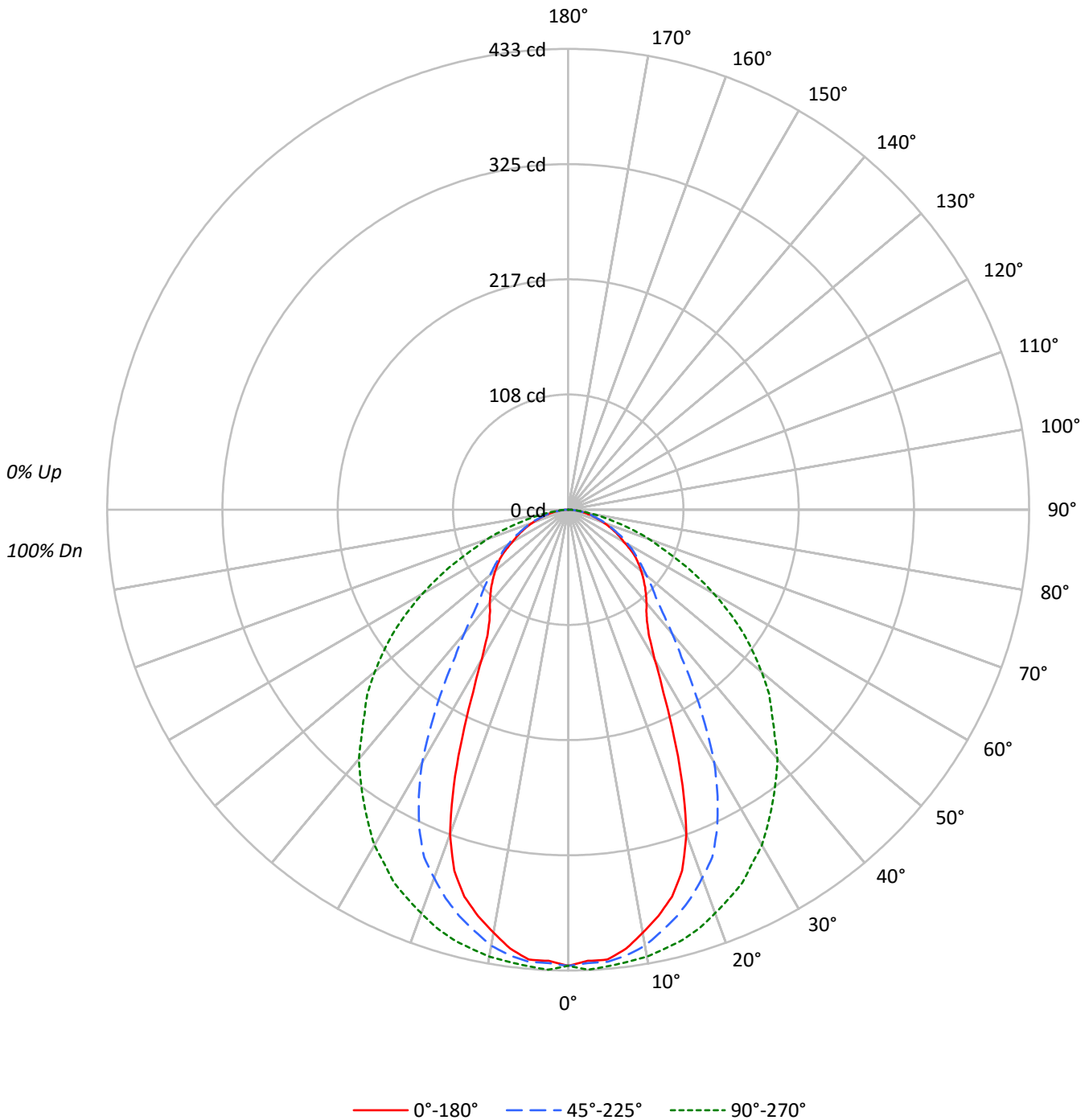
Input Watts (W): 18.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	25302	25302	25302
5°	25150	25274	25523
10°	24193	24943	25566
15°	23016	24159	25559
20°	20391	23137	25355
25°	15311	21546	25207
30°	11059	18723	24818
35°	9299	14842	24141
40°	8818	11701	23571
45°	8509	9728	22580
50°	8212	8791	21780
55°	7927	8133	20558
60°	7121	7617	18671
65°	6679	6972	16277
70°	6112	6457	14001
75°	5704	5704	10905
80°	4965	4965	7787
85°	4200	4200	5623



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.3	5.3
10°-20°	111.0	14.7
20°-30°	145.8	19.3
30°-40°	139.3	18.4
40°-50°	121.8	16.1
50°-60°	96.3	12.7
60°-70°	63.3	8.4
70°-80°	31.3	4.1
80°-90°	8.1	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°	297.2	39.2
0°-40°	436.5	57.6
0°-60°	654.7	86.4
0°-90°	757.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	757.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	428	428	428	428	428	
5°	424	422	426	428	431	40
15°	376	382	395	411	418	104
25°	235	265	331	369	387	108
35°	129	137	206	309	335	83
45°	102	102	116	226	270	79
55°	77	77	79	136	200	68
65°	48	48	50	73	116	47
75°	25	25	25	31	48	26
85°	6	6	6	6	8	8
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°	428.5	428.5	428.5	428.5	428.5	428.5	428.5	428.5	428.5	428.5	428.5
2.5°	424.3	424.3	424.3	424.3	424.3	424.3	424.3	426.4	426.4	426.4	426.4
5°	424.3	424.3	424.3	422.2	422.2	422.2	424.3	424.3	424.3	426.4	426.4
7.5°	416.0	418.1	416.0	416.0	418.1	418.1	418.1	420.2	420.2	422.2	422.2
10°	403.5	403.5	405.6	405.6	405.6	407.7	407.7	411.8	413.9	416.0	416.0
12.5°	391.0	391.0	391.0	393.1	393.1	395.2	397.3	399.4	403.5	405.6	407.7
15°	376.5	376.5	378.6	378.6	380.6	382.7	384.8	389.0	391.0	395.2	399.4
17.5°	355.7	357.8	357.8	359.8	364.0	366.1	370.2	374.4	378.6	382.7	386.9
20°	324.5	324.5	328.6	332.8	337.0	343.2	349.4	355.7	361.9	368.2	374.4
22.5°	280.8	282.9	287.0	293.3	301.6	312.0	320.3	332.8	343.2	353.6	359.8
25°	235.0	237.1	241.3	247.5	257.9	272.5	285.0	301.6	316.2	330.7	343.2
27.5°	193.4	195.5	197.6	205.9	216.3	228.8	245.4	264.2	285.0	303.7	322.4
30°	162.2	164.3	166.4	170.6	178.9	191.4	205.9	226.7	249.6	274.6	297.4
32.5°	141.4	141.4	143.5	147.7	151.8	160.2	172.6	189.3	212.2	239.2	266.2
35°	129.0	129.0	131.0	131.0	135.2	139.4	147.7	162.2	178.9	205.9	235.0
37.5°	120.6	120.6	120.6	122.7	122.7	126.9	131.0	139.4	153.9	174.7	203.8
40°	114.4	114.4	114.4	114.4	114.4	116.5	120.6	124.8	135.2	151.8	172.6
42.5°	108.2	108.2	108.2	108.2	108.2	110.2	110.2	114.4	120.6	131.0	149.8
45°	101.9	101.9	101.9	101.9	101.9	101.9	104.0	106.1	110.2	116.5	129.0
47.5°	95.7	95.7	95.7	95.7	95.7	95.7	97.8	97.8	99.8	106.1	114.4
50°	89.4	89.4	89.4	89.4	89.4	89.4	89.4	91.5	91.5	95.7	101.9
52.5°	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	85.3	87.4	91.5
55°	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	79.0	83.2
57.5°	68.6	68.6	68.6	68.6	68.6	70.7	70.7	70.7	70.7	72.8	74.9
60°	60.3	60.3	60.3	60.3	62.4	62.4	64.5	64.5	62.4	64.5	66.6
62.5°	54.1	54.1	54.1	54.1	54.1	56.2	56.2	56.2	56.2	58.2	58.2
65°	47.8	47.8	47.8	47.8	47.8	47.8	49.9	49.9	49.9	49.9	52.0
67.5°	41.6	41.6	41.6	41.6	41.6	41.6	41.6	43.7	43.7	43.7	43.7
70°	35.4	35.4	35.4	35.4	35.4	35.4	35.4	37.4	37.4	37.4	37.4
72.5°	29.1	31.2	31.2	29.1	29.1	29.1	29.1	31.2	31.2	31.2	31.2
75°	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
77.5°	18.7	20.8	20.8	18.7	18.7	18.7	18.7	18.7	20.8	20.8	20.8
80°	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6
82.5°	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4
85°	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
87.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
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°	428.5	428.5	428.5	428.5	428.5	428.5	428.5	428.5
2.5°	426.4	428.5	428.5	428.5	430.6	430.6	432.6	432.6
5°	426.4	426.4	428.5	428.5	428.5	428.5	430.6	430.6
7.5°	424.3	424.3	424.3	426.4	426.4	426.4	428.5	428.5
10°	418.1	420.2	422.2	422.2	424.3	426.4	426.4	426.4
12.5°	411.8	413.9	416.0	418.1	420.2	422.2	422.2	422.2
15°	401.4	405.6	409.8	411.8	413.9	416.0	418.1	418.1
17.5°	391.0	397.3	401.4	405.6	407.7	409.8	411.8	411.8
20°	378.6	384.8	391.0	395.2	399.4	403.5	403.5	403.5
22.5°	366.1	372.3	378.6	384.8	391.0	393.1	395.2	395.2
25°	351.5	357.8	366.1	372.3	378.6	384.8	386.9	386.9
27.5°	334.9	345.3	353.6	359.8	368.2	372.3	376.5	374.4
30°	314.1	328.6	337.0	345.3	353.6	359.8	364.0	364.0
32.5°	291.2	309.9	320.3	330.7	339.0	345.3	349.4	349.4
35°	264.2	289.1	303.7	314.1	322.4	330.7	334.9	334.9
37.5°	235.0	264.2	285.0	297.4	305.8	316.2	320.3	320.3
40°	203.8	237.1	262.1	278.7	289.1	299.5	303.7	305.8
42.5°	174.7	210.1	239.2	257.9	270.4	280.8	287.0	287.0
45°	151.8	183.0	214.2	237.1	251.7	262.1	270.4	270.4
47.5°	131.0	158.1	189.3	216.3	233.0	245.4	253.8	255.8
50°	114.4	135.2	166.4	195.5	214.2	226.7	235.0	237.1
52.5°	99.8	116.5	143.5	172.6	193.4	208.0	216.3	218.4
55°	89.4	101.9	122.7	149.8	174.7	187.2	195.5	199.7
57.5°	79.0	89.4	106.1	131.0	153.9	166.4	174.7	178.9
60°	70.7	77.0	91.5	112.3	133.1	147.7	156.0	158.1
62.5°	62.4	66.6	77.0	93.6	114.4	126.9	135.2	137.3
65°	54.1	58.2	66.6	79.0	95.7	108.2	114.4	116.5
67.5°	45.8	49.9	56.2	64.5	77.0	87.4	93.6	95.7
70°	39.5	41.6	45.8	52.0	62.4	70.7	77.0	81.1
72.5°	33.3	33.3	37.4	41.6	47.8	54.1	60.3	64.5
75°	27.0	27.0	29.1	33.3	37.4	41.6	45.8	47.8
77.5°	20.8	20.8	22.9	25.0	27.0	29.1	33.3	35.4
80°	14.6	14.6	16.6	16.6	18.7	20.8	22.9	22.9
82.5°	10.4	10.4	10.4	10.4	12.5	12.5	14.6	14.6
85°	6.2	6.2	6.2	6.2	6.2	6.2	8.3	8.3
87.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)