

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: P273387

Luminaire Tested: **0.03-5W-840-55-ID-STD-UNV-AN-3F0**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P273387
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-840-55-ID-STD-UNV-AN-3F0
Description: iO LIGHTING SERIES .75 LINEAR LED LUMINAIRE, 55 DEGREE OPTIC.
VERY HIGH OUTPUT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 771.9 lumens
Efficiency: N/A
Efficacy: 42.2 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

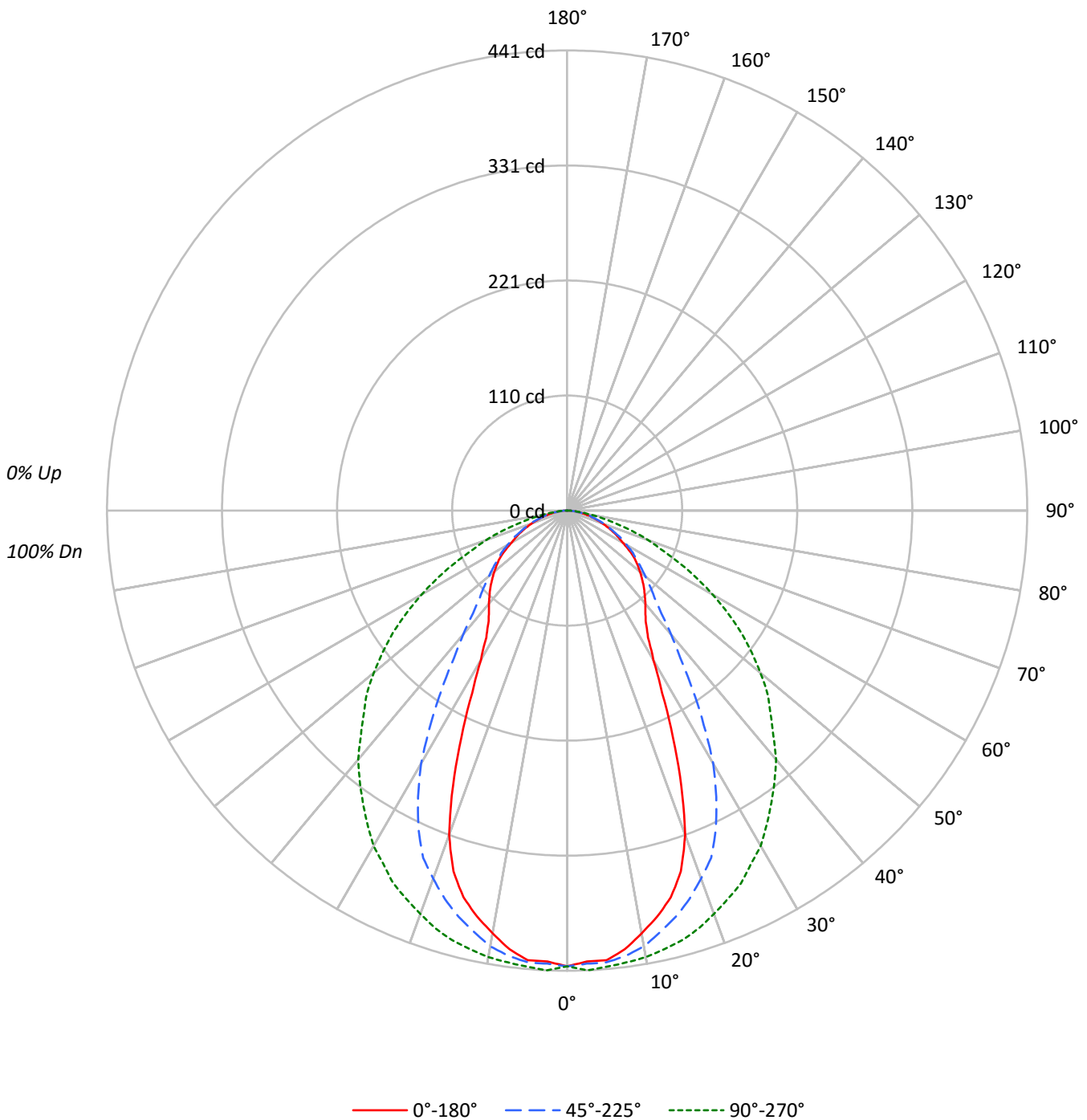
Input Watts (W): 18.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	25786	25786	25786
5°	25636	25760	26009
10°	24661	25422	26058
15°	23456	24623	26048
20°	20780	23577	25845
25°	15610	21963	25689
30°	11277	19077	25296
35°	9472	15130	24602
40°	8988	11932	24019
45°	8676	9912	23014
50°	8378	8957	22203
55°	8071	8297	20950
60°	7263	7759	19025
65°	6818	7112	16585
70°	6215	6595	14278
75°	5795	5795	11133
80°	5033	5033	7923
85°	4336	4336	5759



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.1	5.3
10°-20°	113.2	14.7
20°-30°	148.6	19.3
30°-40°	142.0	18.4
40°-50°	124.2	16.1
50°-60°	98.2	12.7
60°-70°	64.6	8.4
70°-80°	31.9	4.1
80°-90°	8.2	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°	302.9	39.2
0°-40°	444.9	57.6
0°-60°	667.3	86.4
0°-90°	771.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	771.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	437	437	437	437	437	
5°	432	430	435	437	439	41
15°	384	389	403	419	426	106
25°	240	270	337	376	394	110
35°	131	140	210	315	341	84
45°	104	104	119	230	276	80
55°	78	78	81	139	204	69
65°	49	49	51	74	119	48
75°	25	25	25	32	49	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°	436.7	436.7	436.7	436.7	436.7	436.7	436.7	436.7	436.7	436.7	436.7
2.5°	432.5	432.5	432.5	432.5	432.5	432.5	432.5	434.6	434.6	434.6	434.6
5°	432.5	432.5	432.5	430.4	430.4	430.4	432.5	432.5	432.5	434.6	434.6
7.5°	424.0	426.1	424.0	424.0	426.1	426.1	426.1	428.2	428.2	430.4	430.4
10°	411.3	411.3	413.4	413.4	413.4	415.5	415.5	419.8	421.9	424.0	424.0
12.5°	398.6	398.6	398.6	400.7	400.7	402.8	404.9	407.0	411.3	413.4	415.5
15°	383.7	383.7	385.8	385.8	388.0	390.1	392.2	396.4	398.6	402.8	407.0
17.5°	362.5	364.6	364.6	366.8	371.0	373.1	377.4	381.6	385.8	390.1	394.3
20°	330.7	330.7	335.0	339.2	343.4	349.8	356.2	362.5	368.9	375.2	381.6
22.5°	286.2	288.3	292.6	298.9	307.4	318.0	326.5	339.2	349.8	360.4	366.8
25°	239.6	241.7	245.9	252.3	262.9	277.7	290.4	307.4	322.2	337.1	349.8
27.5°	197.2	199.3	201.4	209.9	220.5	233.2	250.2	269.2	290.4	309.5	328.6
30°	165.4	167.5	169.6	173.8	182.3	195.0	209.9	231.1	254.4	279.8	303.2
32.5°	144.2	144.2	146.3	150.5	154.8	163.2	176.0	192.9	216.2	243.8	271.4
35°	131.4	131.4	133.6	133.6	137.8	142.0	150.5	165.4	182.3	209.9	239.6
37.5°	123.0	123.0	123.0	125.1	125.1	129.3	133.6	142.0	156.9	178.1	207.8
40°	116.6	116.6	116.6	116.6	116.6	118.7	123.0	127.2	137.8	154.8	176.0
42.5°	110.2	110.2	110.2	110.2	110.2	112.4	112.4	116.6	123.0	133.6	152.6
45°	103.9	103.9	103.9	103.9	103.9	103.9	106.0	108.1	112.4	118.7	131.4
47.5°	97.5	97.5	97.5	97.5	97.5	97.5	99.6	99.6	101.8	108.1	116.6
50°	91.2	91.2	91.2	91.2	91.2	91.2	91.2	93.3	93.3	97.5	103.9
52.5°	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	86.9	89.0	93.3
55°	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	80.6	84.8
57.5°	70.0	70.0	70.0	70.0	70.0	72.1	72.1	72.1	72.1	74.2	76.3
60°	61.5	61.5	61.5	61.5	63.6	63.6	65.7	65.7	63.6	65.7	67.8
62.5°	55.1	55.1	55.1	55.1	55.1	57.2	57.2	57.2	57.2	59.4	59.4
65°	48.8	48.8	48.8	48.8	48.8	48.8	50.9	50.9	50.9	50.9	53.0
67.5°	42.4	42.4	42.4	42.4	42.4	42.4	42.4	44.5	44.5	44.5	44.5
70°	36.0	36.0	36.0	36.0	36.0	36.0	36.0	38.2	38.2	38.2	38.2
72.5°	29.7	31.8	31.8	29.7	29.7	29.7	29.7	31.8	31.8	31.8	31.8
75°	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4
77.5°	19.1	21.2	21.2	19.1	19.1	19.1	19.1	19.1	21.2	21.2	21.2
80°	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8
82.5°	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6
85°	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
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°	436.7	436.7	436.7	436.7	436.7	436.7	436.7	436.7
2.5°	434.6	436.7	436.7	436.7	438.8	438.8	441.0	441.0
5°	434.6	434.6	436.7	436.7	436.7	436.7	438.8	438.8
7.5°	432.5	432.5	432.5	434.6	434.6	434.6	436.7	436.7
10°	426.1	428.2	430.4	430.4	432.5	434.6	434.6	434.6
12.5°	419.8	421.9	424.0	426.1	428.2	430.4	430.4	430.4
15°	409.2	413.4	417.6	419.8	421.9	424.0	426.1	426.1
17.5°	398.6	404.9	409.2	413.4	415.5	417.6	419.8	419.8
20°	385.8	392.2	398.6	402.8	407.0	411.3	411.3	411.3
22.5°	373.1	379.5	385.8	392.2	398.6	400.7	402.8	402.8
25°	358.3	364.6	373.1	379.5	385.8	392.2	394.3	394.3
27.5°	341.3	351.9	360.4	366.8	375.2	379.5	383.7	381.6
30°	320.1	335.0	343.4	351.9	360.4	366.8	371.0	371.0
32.5°	296.8	315.9	326.5	337.1	345.6	351.9	356.2	356.2
35°	269.2	294.7	309.5	320.1	328.6	337.1	341.3	341.3
37.5°	239.6	269.2	290.4	303.2	311.6	322.2	326.5	326.5
40°	207.8	241.7	267.1	284.1	294.7	305.3	309.5	311.6
42.5°	178.1	214.1	243.8	262.9	275.6	286.2	292.6	292.6
45°	154.8	186.6	218.4	241.7	256.5	267.1	275.6	275.6
47.5°	133.6	161.1	192.9	220.5	237.4	250.2	258.6	260.8
50°	116.6	137.8	169.6	199.3	218.4	231.1	239.6	241.7
52.5°	101.8	118.7	146.3	176.0	197.2	212.0	220.5	222.6
55°	91.2	103.9	125.1	152.6	178.1	190.8	199.3	203.5
57.5°	80.6	91.2	108.1	133.6	156.9	169.6	178.1	182.3
60°	72.1	78.4	93.3	114.5	135.7	150.5	159.0	161.1
62.5°	63.6	67.8	78.4	95.4	116.6	129.3	137.8	139.9
65°	55.1	59.4	67.8	80.6	97.5	110.2	116.6	118.7
67.5°	46.6	50.9	57.2	65.7	78.4	89.0	95.4	97.5
70°	40.3	42.4	46.6	53.0	63.6	72.1	78.4	82.7
72.5°	33.9	33.9	38.2	42.4	48.8	55.1	61.5	65.7
75°	27.6	27.6	29.7	33.9	38.2	42.4	46.6	48.8
77.5°	21.2	21.2	23.3	25.4	27.6	29.7	33.9	36.0
80°	14.8	14.8	17.0	17.0	19.1	21.2	23.3	23.3
82.5°	10.6	10.6	10.6	10.6	12.7	12.7	14.8	14.8
85°	6.4	6.4	6.4	6.4	6.4	6.4	8.5	8.5
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)