

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: P273489

Luminaire Tested: **0.10-1W-830-45-OD-STD-UNV-AN-1F6**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P273489
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (ITL89168-GONIOPHOTOMETRY)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: 0.10-1W-830-45-OD-STD-UNV-AN-1F6
Description: iO LIGHTING SERIES 1.5 LINEAR LED LUMINAIRE, 45 DEGREE OPTIC.
STANDARD OUTPUT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 104.7 lumens
Efficiency: N/A
Efficacy: 16.9 lumens/watt
Spacing Criteria (0/90/45): 0.87 / 1.18 / 0.97
Luminous Opening: Rectangular w/ Sides (W: 1.4' x L: 0.07' x H: 0.01')
CIE Type: Direct

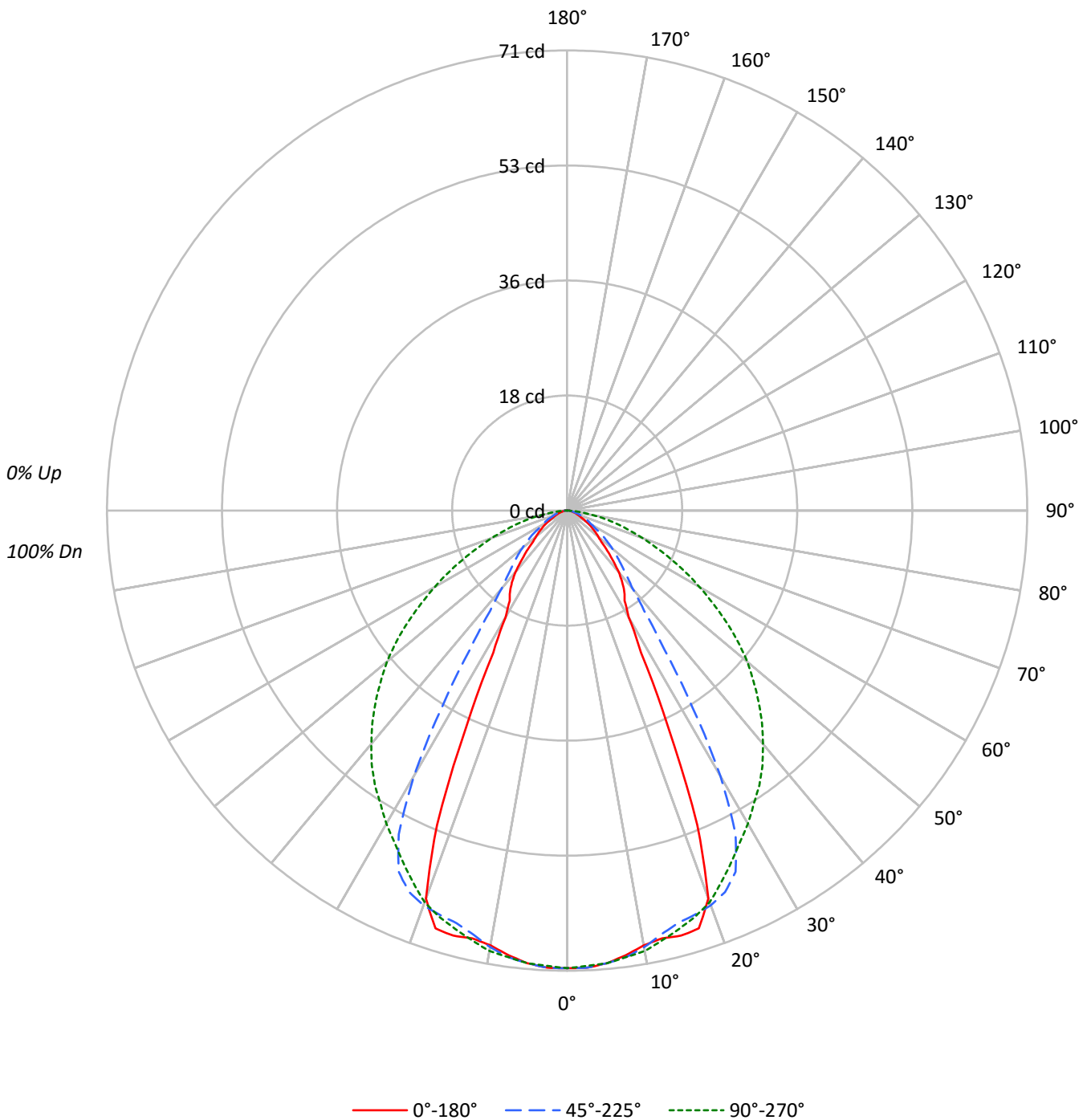
Input Watts (W): 6.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	111	108	104	101	109	105	102	100	101	99	97	97	96	94	94	92	91	89				89
2	104	97	92	87	101	95	91	86	92	88	84	89	85	83	86	83	81	79				79
3	97	88	82	76	94	87	81	76	84	79	74	81	77	73	79	75	72	70				70
4	90	80	73	68	88	79	72	67	77	71	66	74	70	66	72	68	65	63				63
5	84	73	66	61	82	72	65	60	70	64	60	69	63	59	67	62	58	57				57
6	79	68	60	55	77	67	60	54	65	59	54	63	58	54	62	57	53	51				51
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47				47
8	69	58	51	46	68	57	50	45	56	50	45	55	49	45	54	49	45	43				43
9	66	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40				40
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	37				37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8011	8011	8011
5°	7879	7906	7979
10°	7639	7726	7940
15°	7661	7512	7832
20°	7284	7513	7743
25°	4299	7311	7474
30°	2286	5815	7280
35°	1926	3348	7124
40°	1627	2122	6919
45°	1224	1700	6658
50°	940	1414	6352
55°	762	1123	5872
60°	591	834	5288
65°	444	712	4651
70°	373	556	4032
75°	306	431	3413
80°	279	317	2571
85°	236	283	1680



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.6	6.3
10°-20°	18.9	18.0
20°-30°	24.4	23.3
30°-40°	20.1	19.2
40°-50°	16.0	15.3
50°-60°	9.8	9.4
60°-70°	5.4	5.2
70°-80°	2.6	2.4
80°-90°	0.7	0.7
90°-100°	0.1	0.1
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°	49.9	47.7
0°-40°	70.0	66.9
0°-60°	95.8	91.5
0°-90°	104.6	99.9
90°-120°	0.1	0.1
90°-150°	0.1	0.1
90°-180°	0.0	0.0
0°-180°	104.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	71	71	71	71	71	
5°	70	70	70	70	70	7
15°	68	67	66	67	67	19
25°	37	47	62	59	60	17
35°	15	16	26	51	52	10
45°	9	10	12	37	42	7
55°	5	5	7	14	30	4
65°	2	2	3	6	18	2
75°	1	1	1	2	8	1
85°	0	0	0	0	1	0
90°	0	0	0	0	0	0
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	70.6	70.6	70.6	70.6	70.6
2.5°	70.6	70.6	70.6	70.3	70.3
5°	70.1	70.1	70.1	70.1	70.1
7.5°	69.2	69.2	69.5	69.5	69.5
10°	68.1	68.1	68.4	68.7	69.0
12.5°	67.6	67.3	67.0	67.9	67.9
15°	67.9	67.3	65.9	66.8	66.8
17.5°	67.6	67.6	65.4	65.4	65.7
20°	63.7	65.9	64.8	63.5	64.3
22.5°	52.5	59.6	63.7	61.3	62.1
25°	36.8	46.7	61.5	59.1	59.9
27.5°	24.7	32.4	56.3	56.9	57.7
30°	19.0	22.5	47.3	55.2	55.8
32.5°	16.5	17.6	36.0	53.3	53.6
35°	15.4	15.7	26.1	51.4	51.7
37.5°	14.0	14.3	19.5	49.2	49.5
40°	12.4	12.9	15.7	46.2	47.0
42.5°	10.4	11.3	13.5	42.3	44.5
45°	8.8	9.6	11.8	36.8	41.8
47.5°	7.1	8.0	10.4	30.8	39.0
50°	6.3	6.6	9.1	24.5	36.3
52.5°	5.5	5.5	7.7	18.7	33.2
55°	4.7	4.9	6.6	14.3	30.0
57.5°	4.1	4.1	5.2	11.0	26.7
60°	3.3	3.6	4.4	9.1	23.6
62.5°	2.7	3.0	3.8	7.4	20.6
65°	2.2	2.5	3.3	6.0	17.6
67.5°	1.9	1.9	2.7	4.9	14.8
70°	1.6	1.6	2.2	3.8	12.4
72.5°	1.4	1.4	1.9	3.0	9.9
75°	1.1	1.1	1.4	2.5	8.0
77.5°	0.8	0.8	1.1	1.9	6.0
80°	0.8	0.8	0.8	1.4	4.1
82.5°	0.5	0.5	0.8	0.8	2.5
85°	0.5	0.5	0.5	0.5	1.4
87.5°	0.5	0.5	0.5	0.3	0.3
90°	0.3	0.3	0.3	0.3	0.0
92.5°	0.3	0.3	0.3	0.0	0.0
95°	0.3	0.3	0.0	0.0	0.0
97.5°	0.3	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)