

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: P273491

Luminaire Tested: **0.10-1W-835-45-OD-STD-UNV-AN-1F6**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P273491
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-835-45-OD-STD-UNV-AN-1F6
Description: iO LIGHTING SERIES 1.5 LINEAR LED LUMINAIRE, 45 DEGREE OPTIC.
STANDARD OUTPUT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

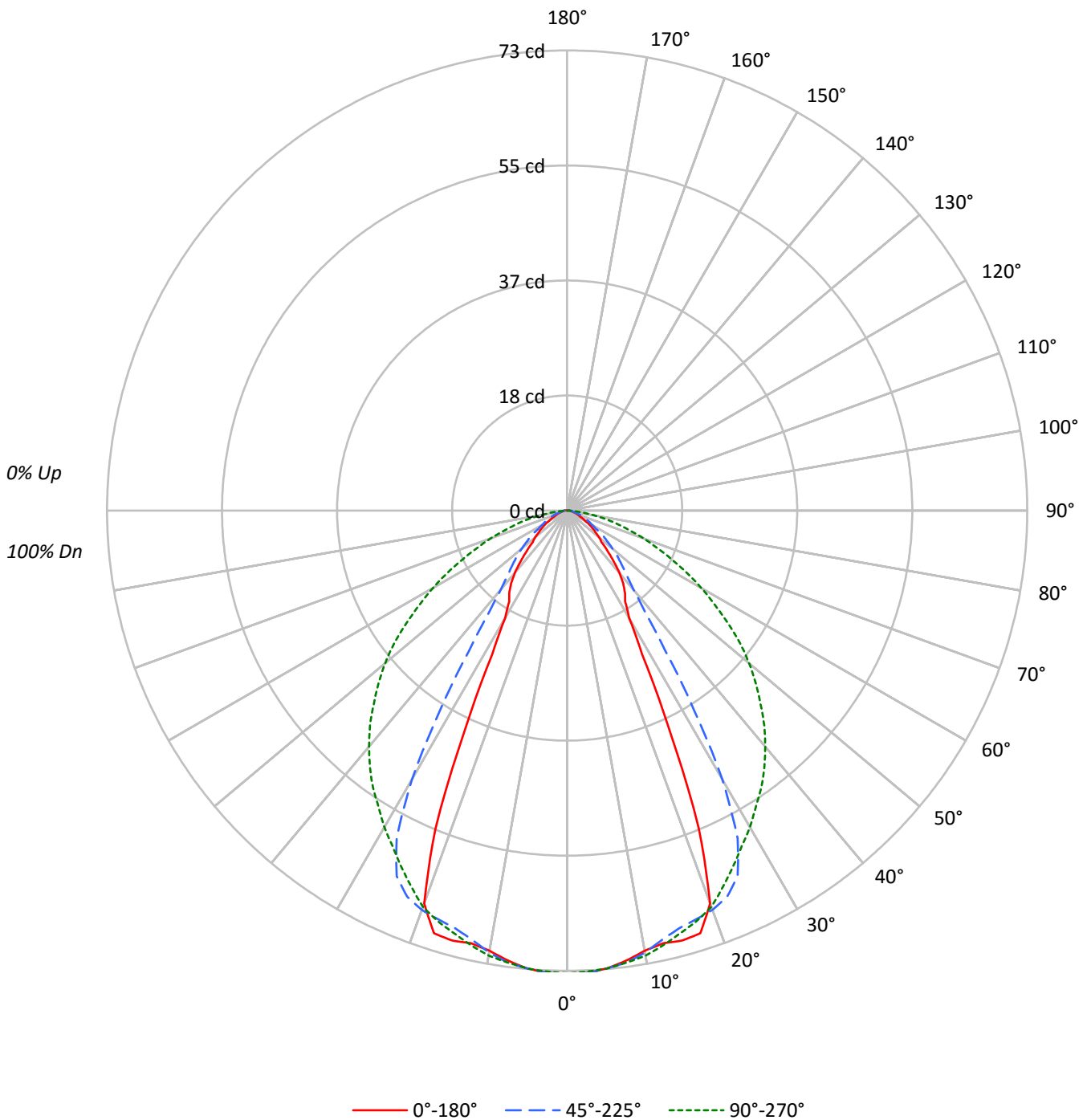
Lumens per Lamp: N/A
Luminaire Lumens: 108.9 lumens
Efficiency: N/A
Efficacy: 17.6 lumens/watt
Spacing Criteria (0/90/45): 0.87 / 1.18 / 0.97
Luminous Opening: Rectangular w/ Sides (W: 1.4' x L: 0.07' x H: 0.01')
CIE Type: Direct

Input Watts (W): 6.2
Input Voltage (V): 120
Input Current (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	111	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79
3	96	88	82	76	94	87	81	76	84	79	74	81	77	73	79	75	72	70
4	90	80	73	68	88	79	72	67	77	71	66	74	69	65	72	68	65	63
5	84	73	66	61	82	72	65	60	70	64	60	69	63	59	67	62	58	57
6	79	68	60	55	77	67	60	54	65	59	54	63	58	54	62	57	53	51
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	52	49	47
8	69	58	51	46	68	57	50	45	56	50	45	55	49	45	54	49	45	43
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8329	8329	8329
5°	8193	8221	8298
10°	7953	8042	8250
15°	7965	7820	8136
20°	7581	7814	8056
25°	4474	7608	7773
30°	2371	6048	7567
35°	2001	3476	7400
40°	1692	2204	7198
45°	1266	1772	6913
50°	985	1461	6597
55°	795	1174	6088
60°	609	872	5512
65°	464	733	4836
70°	396	581	4194
75°	306	431	3541
80°	314	357	2696
85°	283	339	1680



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.9	6.3
10°-20°	19.6	18.0
20°-30°	25.4	23.3
30°-40°	20.9	19.2
40°-50°	16.7	15.3
50°-60°	10.2	9.4
60°-70°	5.7	5.2
70°-80°	2.7	2.4
80°-90°	0.8	0.8
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°	51.9	47.6
0°-40°	72.8	66.8
0°-60°	99.7	91.5
0°-90°	108.8	99.9
90°-120°	0.1	0.1
90°-150°	0.1	0.1
90°-180°	0.0	0.0
0°-180°	108.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	73	73	73	73	73	
5°	73	73	73	73	73	7
15°	71	70	69	69	69	20
25°	38	49	64	61	62	18
35°	16	16	27	53	54	10
45°	9	10	12	38	43	7
55°	5	5	7	15	31	4
65°	2	3	3	6	18	2
75°	1	1	1	3	8	1
85°	1	1	1	1	1	1
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°	73.4	73.4	73.4	73.4	73.4
2.5°	73.4	73.4	73.4	73.2	73.2
5°	72.9	72.9	72.9	72.9	72.9
7.5°	72.0	72.0	72.3	72.3	72.3
10°	70.9	70.9	71.2	71.4	71.7
12.5°	70.3	70.0	69.7	70.6	70.6
15°	70.6	70.0	68.6	69.4	69.4
17.5°	70.3	70.3	68.0	68.0	68.3
20°	66.3	68.6	67.4	66.0	66.9
22.5°	54.6	62.0	66.3	63.7	64.6
25°	38.3	48.6	64.0	61.4	62.3
27.5°	25.7	33.7	58.6	59.2	60.0
30°	19.7	23.4	49.2	57.4	58.0
32.5°	17.1	18.3	37.4	55.4	55.7
35°	16.0	16.3	27.1	53.4	53.7
37.5°	14.6	14.9	20.3	51.2	51.4
40°	12.9	13.4	16.3	48.0	48.9
42.5°	10.9	11.7	14.0	44.0	46.3
45°	9.1	10.0	12.3	38.3	43.4
47.5°	7.4	8.3	10.9	32.0	40.6
50°	6.6	6.9	9.4	25.4	37.7
52.5°	5.7	5.7	8.0	19.4	34.6
55°	4.9	5.1	6.9	14.9	31.1
57.5°	4.3	4.3	5.4	11.4	27.7
60°	3.4	3.7	4.6	9.4	24.6
62.5°	2.9	3.1	4.0	7.7	21.4
65°	2.3	2.6	3.4	6.3	18.3
67.5°	2.0	2.0	2.9	5.1	15.4
70°	1.7	1.7	2.3	4.0	12.9
72.5°	1.4	1.4	2.0	3.1	10.3
75°	1.1	1.1	1.4	2.6	8.3
77.5°	0.9	0.9	1.1	2.0	6.3
80°	0.9	0.9	0.9	1.4	4.3
82.5°	0.6	0.6	0.9	0.9	2.6
85°	0.6	0.6	0.6	0.6	1.4
87.5°	0.6	0.6	0.6	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)