

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: P273493

Luminaire Tested: **0.10-1W-840-45-OD-STD-UNV-AN-1F6**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P273493
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-840-45-OD-STD-UNV-AN-1F6
Description: iO LIGHTING SERIES 1.5 LINEAR LED LUMINAIRE, 45 DEGREE OPTIC.
STANDARD OUTPUT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 111.0 lumens
Efficiency: N/A
Efficacy: 17.9 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

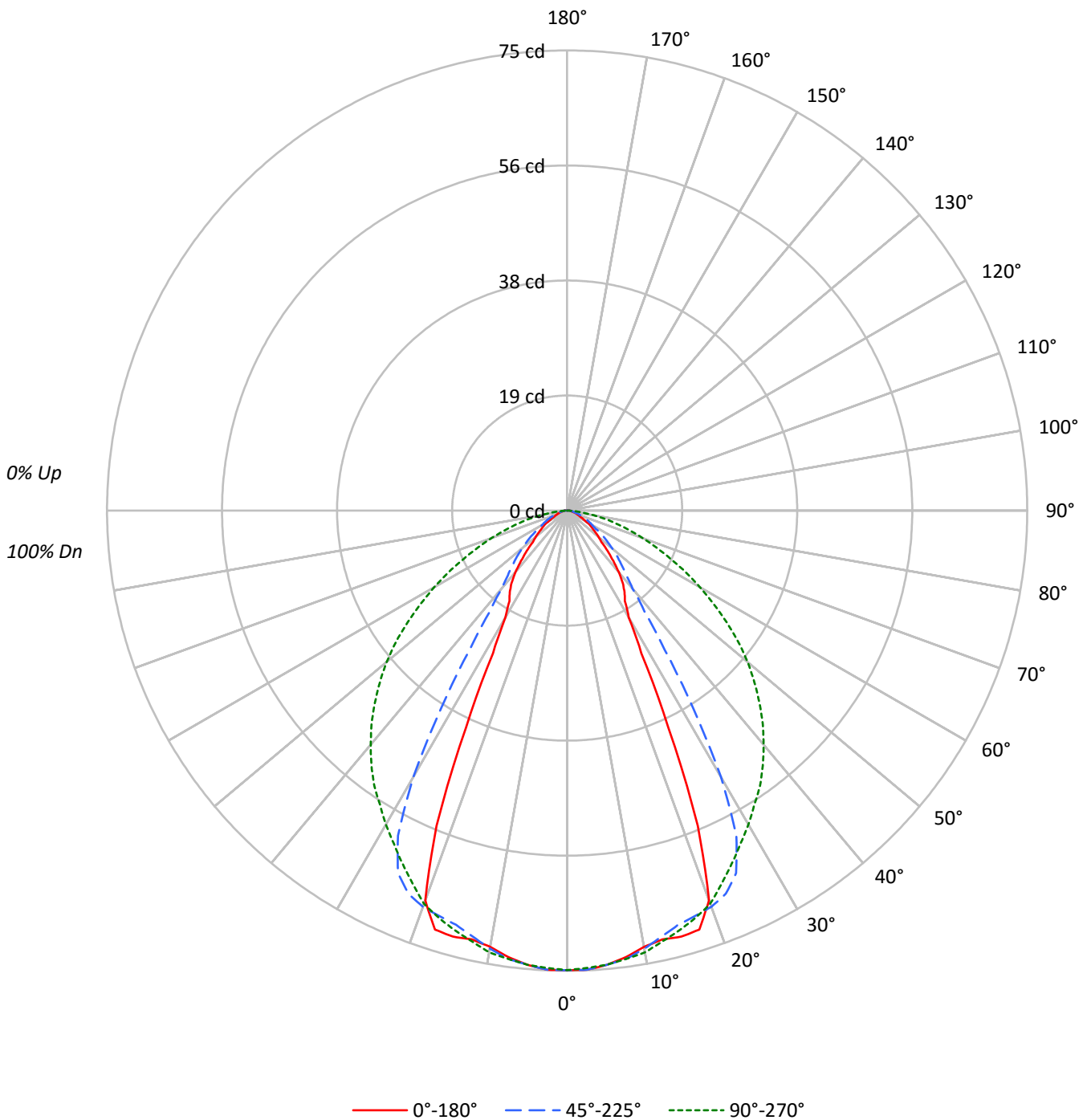
Input Watts (W): 6.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	95	94	94	92	91	89					89			
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79					79			
3	96	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	69	65	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	52	49	47					47			
8	69	58	51	46	68	57	50	45	56	50	45	55	49	45	54	49	45	43					43			
9	65	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°	8499	8499	8499
5°	8351	8379	8457
10°	8099	8189	8412
15°	8112	7968	8300
20°	7730	7965	8213
25°	4556	7751	7923
30°	2419	6159	7710
35°	2038	3553	7552
40°	1719	2244	7331
45°	1293	1801	7056
50°	999	1492	6719
55°	811	1191	6205
60°	627	891	5601
65°	464	755	4916
70°	396	581	4259
75°	334	461	3583
80°	314	357	2759
85°	283	339	1800



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.0	6.3
10°-20°	20.0	18.0
20°-30°	25.8	23.3
30°-40°	21.3	19.2
40°-50°	17.0	15.3
50°-60°	10.4	9.4
60°-70°	5.8	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°	52.9	47.6
0°-40°	74.2	66.8
0°-60°	101.6	91.5
0°-90°	110.9	99.9
90°-120°	0.1	0.1
90°-150°	0.1	0.1
90°-180°	0.0	0.0
0°-180°	111.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	75	75	75	75	75	
5°	74	74	74	74	74	7
15°	72	71	70	71	71	20
25°	39	50	65	63	64	18
35°	16	17	28	54	55	10
45°	9	10	12	39	44	7
55°	5	5	7	15	32	5
65°	2	3	4	6	19	2
75°	1	1	2	3	8	1
85°	1	1	1	1	2	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°	74.9	74.9	74.9	74.9	74.9
2.5°	74.9	74.9	74.9	74.6	74.6
5°	74.3	74.3	74.3	74.3	74.3
7.5°	73.4	73.4	73.7	73.7	73.7
10°	72.2	72.2	72.5	72.8	73.1
12.5°	71.6	71.4	71.1	71.9	71.9
15°	71.9	71.4	69.9	70.8	70.8
17.5°	71.6	71.6	69.3	69.3	69.6
20°	67.6	69.9	68.7	67.3	68.2
22.5°	55.6	63.2	67.6	65.0	65.8
25°	39.0	49.5	65.2	62.6	63.5
27.5°	26.2	34.4	59.7	60.3	61.2
30°	20.1	23.9	50.1	58.5	59.1
32.5°	17.5	18.6	38.2	56.5	56.8
35°	16.3	16.6	27.7	54.5	54.8
37.5°	14.9	15.1	20.7	52.1	52.4
40°	13.1	13.7	16.6	48.9	49.8
42.5°	11.1	11.9	14.3	44.9	47.2
45°	9.3	10.2	12.5	39.0	44.3
47.5°	7.6	8.4	11.1	32.6	41.4
50°	6.7	7.0	9.6	25.9	38.4
52.5°	5.8	5.8	8.2	19.8	35.2
55°	5.0	5.2	7.0	15.1	31.7
57.5°	4.4	4.4	5.5	11.7	28.3
60°	3.5	3.8	4.7	9.6	25.0
62.5°	2.9	3.2	4.1	7.9	21.8
65°	2.3	2.6	3.5	6.4	18.6
67.5°	2.0	2.0	2.9	5.2	15.7
70°	1.7	1.7	2.3	4.1	13.1
72.5°	1.5	1.5	2.0	3.2	10.5
75°	1.2	1.2	1.5	2.6	8.4
77.5°	0.9	0.9	1.2	2.0	6.4
80°	0.9	0.9	0.9	1.5	4.4
82.5°	0.6	0.6	0.9	0.9	2.6
85°	0.6	0.6	0.6	0.6	1.5
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)