

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: P273503

Luminaire Tested: **0.10-5W-827-45-OD-STD-UNV-AN-1F6**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P273503
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: 0.10-5W-827-45-OD-STD-UNV-AN-1F6
Description: iO LIGHTING SERIES 1.5 LINEAR LED LUMINAIRE, 45 DEGREE OPTIC.
VERY HIGH OUTPUT
Light Source: 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 356.4 lumens
Efficiency: N/A
Efficacy: 31.5 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

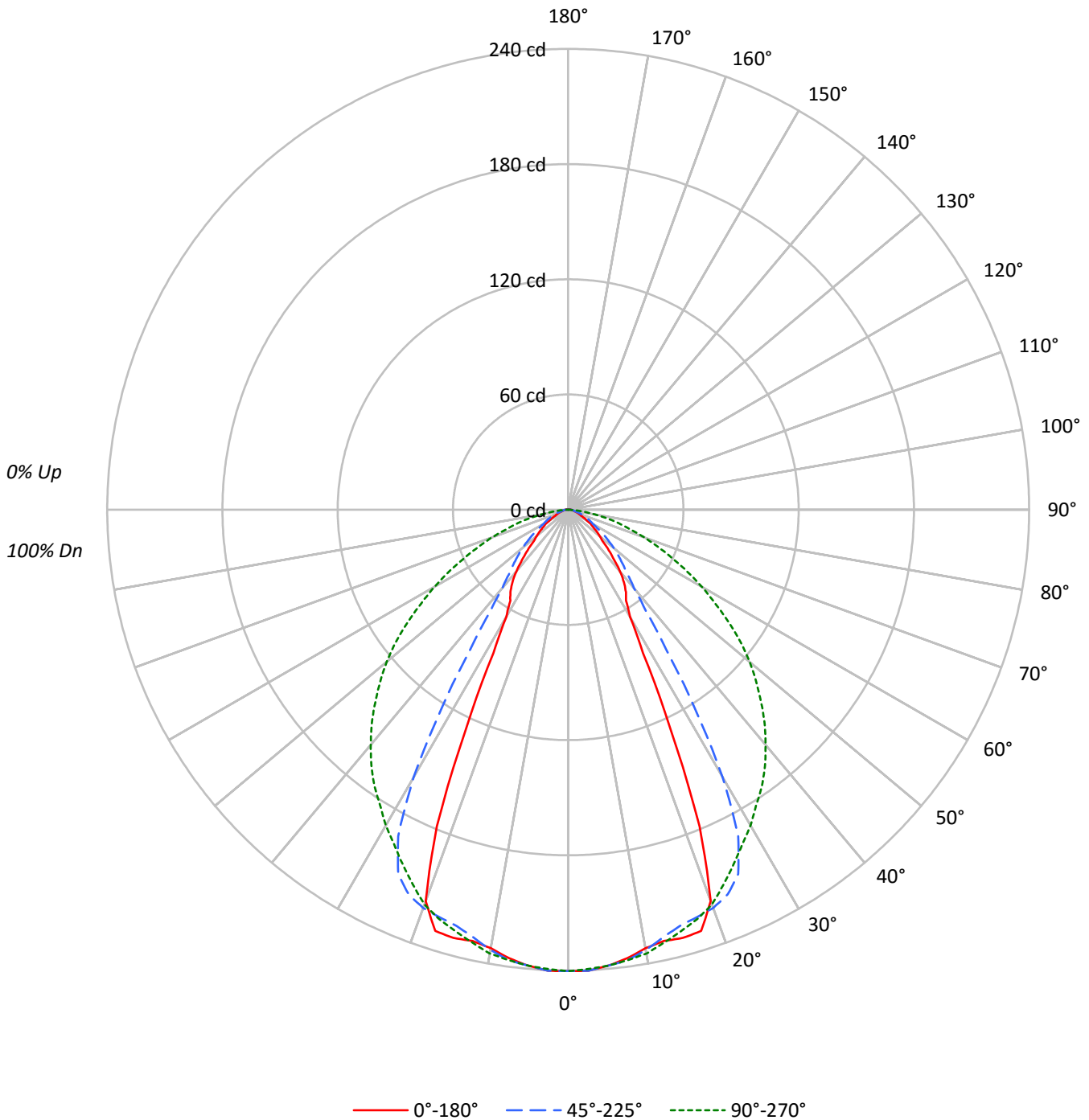
Input Watts (W): 11.3
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	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	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	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°	27267	27267	27267
5°	26794	26886	27137
10°	26014	26294	27007
15°	26050	25579	26637
20°	24802	25588	26349
25°	14637	24893	25428
30°	7762	19767	24762
35°	6553	11391	24226
40°	5523	7205	23538
45°	4158	5791	22635
50°	3207	4802	21592
55°	2579	3811	19947
60°	2007	2843	18014
65°	1514	2416	15804
70°	1306	1895	13688
75°	1030	1445	11560
80°	977	1111	8778
85°	897	1074	5640



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.6	6.3
10°-20°	64.2	18.0
20°-30°	83.0	23.3
30°-40°	68.4	19.2
40°-50°	54.5	15.3
50°-60°	33.4	9.4
60°-70°	18.5	5.2
70°-80°	8.7	2.4
80°-90°	2.6	0.7
90°-100°	0.4	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°	169.8	47.7
0°-40°	238.3	66.9
0°-60°	326.1	91.5
0°-90°	356.0	99.9
90°-120°	0.4	0.1
90°-150°	0.4	0.1
90°-180°	0.0	0.0
0°-180°	356.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	240	240	240	240	240	
5°	238	238	238	238	238	23
15°	231	229	224	227	227	65
25°	125	159	209	201	204	59
35°	52	53	89	175	176	33
45°	30	33	40	125	142	23
55°	16	17	22	49	102	14
65°	8	8	11	21	60	8
75°	4	4	5	8	27	4
85°	2	2	2	2	5	2
90°	1	1	1	1	0	1
95°	1	1	0	0	0	1
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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CATALOG NUMBER: 0.10-5W-827-45-OD-STD-UNV-AN-1F6

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	240.3	240.3	240.3	240.3	240.3
2.5°	240.3	240.3	240.3	239.4	239.4
5°	238.4	238.4	238.4	238.4	238.4
7.5°	235.6	235.6	236.6	236.6	236.6
10°	231.9	231.9	232.8	233.8	234.7
12.5°	230.0	229.1	228.1	230.9	230.9
15°	230.9	229.1	224.4	227.2	227.2
17.5°	230.0	230.0	222.5	222.5	223.5
20°	216.9	224.4	220.7	216.0	218.8
22.5°	178.6	202.9	216.9	208.5	211.3
25°	125.3	159.0	209.4	201.0	203.8
27.5°	84.2	110.3	191.7	193.5	196.4
30°	64.5	76.7	160.8	187.9	189.8
32.5°	56.1	59.8	122.5	181.4	182.3
35°	52.4	53.3	88.8	174.8	175.8
37.5°	47.7	48.6	66.4	167.4	168.3
40°	42.1	43.9	53.3	157.1	159.9
42.5°	35.5	38.3	45.8	144.0	151.5
45°	29.9	32.7	40.2	125.3	142.1
47.5°	24.3	27.1	35.5	104.7	132.8
50°	21.5	22.4	30.9	83.2	123.4
52.5°	18.7	18.7	26.2	63.6	113.1
55°	15.9	16.8	22.4	48.6	101.9
57.5°	14.0	14.0	17.8	37.4	90.7
60°	11.2	12.2	15.0	30.9	80.4
62.5°	9.4	10.3	13.1	25.2	70.1
65°	7.5	8.4	11.2	20.6	59.8
67.5°	6.5	6.5	9.4	16.8	50.5
70°	5.6	5.6	7.5	13.1	42.1
72.5°	4.7	4.7	6.5	10.3	33.7
75°	3.7	3.7	4.7	8.4	27.1
77.5°	2.8	2.8	3.7	6.5	20.6
80°	2.8	2.8	2.8	4.7	14.0
82.5°	1.9	1.9	2.8	2.8	8.4
85°	1.9	1.9	1.9	1.9	4.7
87.5°	1.9	1.9	1.9	0.9	0.9
90°	0.9	0.9	0.9	0.9	0.0
92.5°	0.9	0.9	0.9	0.0	0.0
95°	0.9	0.9	0.0	0.0	0.0
97.5°	0.9	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)