

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: P273495

Luminaire Tested: **0.10-3W-827-45-OD-STD-UNV-AN-1F6**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P273495
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: 0.10-3W-827-45-OD-STD-UNV-AN-1F6
Description: iO LIGHTING SERIES 1.5 LINEAR LED LUMINAIRE, 45 DEGREE OPTIC.
HIGH OUTPUT
Light Source: 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 235.5 lumens
Efficiency: N/A
Efficacy: 26.5 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

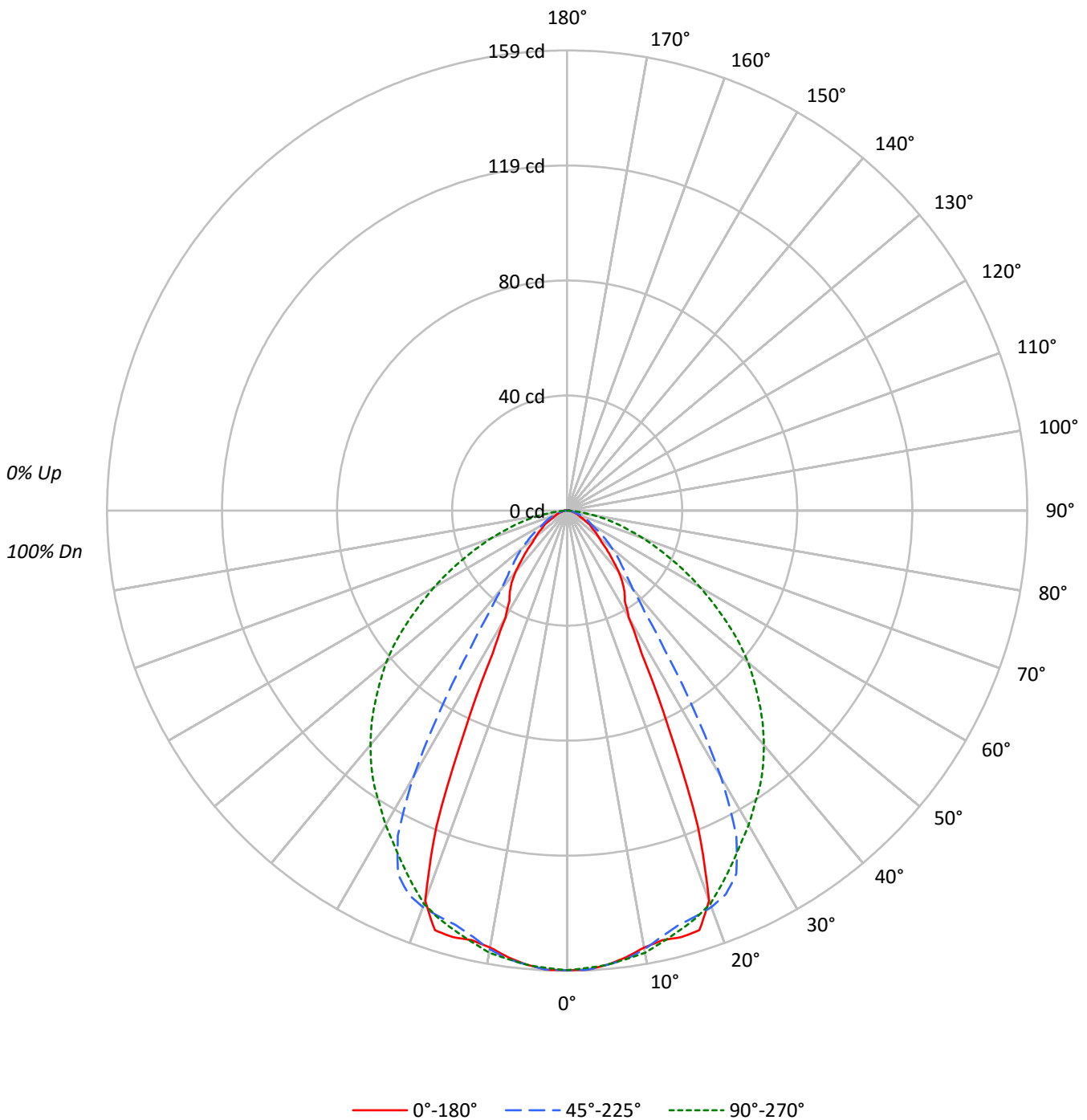
Input Watts (W): 8.9
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	18019	18019	18019
5°	17713	17774	17939
10°	17197	17383	17847
15°	17217	16905	17609
20°	16398	16904	17414
25°	9673	16453	16806
30°	5126	13067	16360
35°	4327	7530	16013
40°	3647	4759	15560
45°	2754	3832	14957
50°	2118	3170	14278
55°	1703	2518	13194
60°	1326	1876	11897
65°	989	1596	10439
70°	863	1238	9038
75°	696	953	7636
80°	663	754	5831
85°	566	678	3720



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.9	6.3
10°-20°	42.5	18.0
20°-30°	54.8	23.3
30°-40°	45.2	19.2
40°-50°	36.0	15.3
50°-60°	22.0	9.4
60°-70°	12.3	5.2
70°-80°	5.8	2.4
80°-90°	1.7	0.7
90°-100°	0.3	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°	112.2	47.7
0°-40°	157.5	66.9
0°-60°	215.5	91.5
0°-90°	235.3	99.9
90°-120°	0.3	0.1
90°-150°	0.3	0.1
90°-180°	0.0	0.0
0°-180°	235.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	159	159	159	159	159	
5°	158	158	158	158	158	15
15°	153	151	148	150	150	43
25°	83	105	138	133	135	39
35°	35	35	59	116	116	22
45°	20	22	27	83	94	15
55°	10	11	15	32	67	10
65°	5	6	7	14	40	5
75°	2	2	3	6	18	3
85°	1	1	1	1	3	1
90°	1	1	1	1	0	0
95°	1	1	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°	158.8	158.8	158.8	158.8	158.8
2.5°	158.8	158.8	158.8	158.2	158.2
5°	157.6	157.6	157.6	157.6	157.6
7.5°	155.7	155.7	156.3	156.3	156.3
10°	153.3	153.3	153.9	154.5	155.1
12.5°	152.0	151.4	150.8	152.6	152.6
15°	152.6	151.4	148.3	150.2	150.2
17.5°	152.0	152.0	147.1	147.1	147.7
20°	143.4	148.3	145.8	142.7	144.6
22.5°	118.0	134.1	143.4	137.8	139.7
25°	82.8	105.1	138.4	132.9	134.7
27.5°	55.6	72.9	126.7	127.9	129.8
30°	42.6	50.7	106.3	124.2	125.4
32.5°	37.1	39.5	81.0	119.9	120.5
35°	34.6	35.2	58.7	115.6	116.2
37.5°	31.5	32.1	43.9	110.6	111.2
40°	27.8	29.0	35.2	103.8	105.7
42.5°	23.5	25.3	30.3	95.2	100.1
45°	19.8	21.6	26.6	82.8	93.9
47.5°	16.1	17.9	23.5	69.2	87.7
50°	14.2	14.8	20.4	55.0	81.6
52.5°	12.4	12.4	17.3	42.0	74.8
55°	10.5	11.1	14.8	32.1	67.4
57.5°	9.3	9.3	11.7	24.7	59.9
60°	7.4	8.0	9.9	20.4	53.1
62.5°	6.2	6.8	8.7	16.7	46.3
65°	4.9	5.6	7.4	13.6	39.5
67.5°	4.3	4.3	6.2	11.1	33.4
70°	3.7	3.7	4.9	8.7	27.8
72.5°	3.1	3.1	4.3	6.8	22.2
75°	2.5	2.5	3.1	5.6	17.9
77.5°	1.9	1.9	2.5	4.3	13.6
80°	1.9	1.9	1.9	3.1	9.3
82.5°	1.2	1.2	1.9	1.9	5.6
85°	1.2	1.2	1.2	1.2	3.1
87.5°	1.2	1.2	1.2	0.6	0.6
90°	0.6	0.6	0.6	0.6	0.0
92.5°	0.6	0.6	0.6	0.0	0.0
95°	0.6	0.6	0.0	0.0	0.0
97.5°	0.6	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)