

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: P273497

Luminaire Tested: **0.10-3W-830-45-OD-STD-UNV-AN-1F6**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P273497
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-830-45-OD-STD-UNV-AN-1F6
Description: iO LIGHTING SERIES 1.5 LINEAR LED LUMINAIRE, 45 DEGREE OPTIC.
HIGH OUTPUT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 251.9 lumens
Efficiency: N/A
Efficacy: 28.3 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

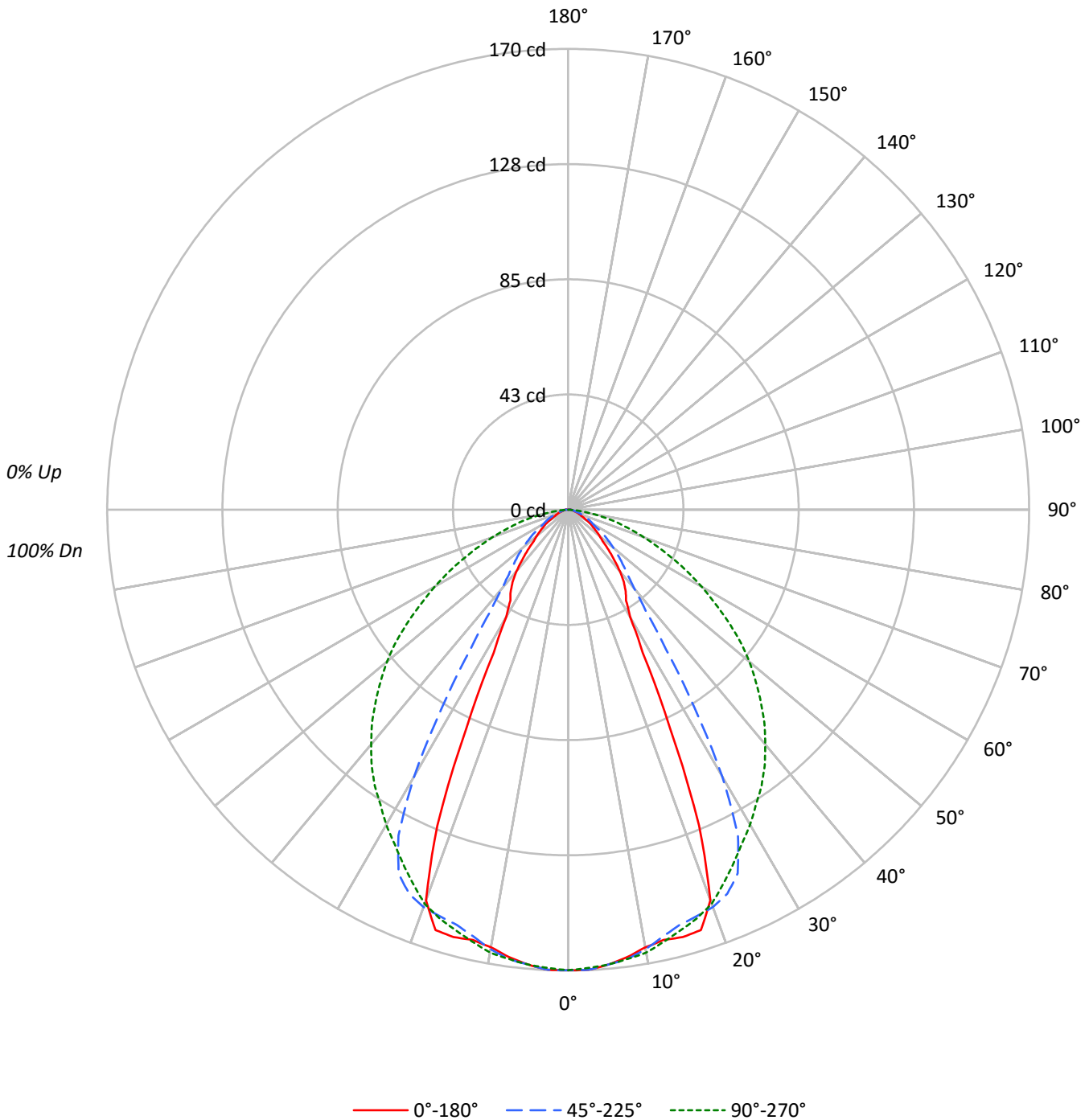
Input Watts (W): 8.9
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	82	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	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	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°	19278	19278	19278
5°	18938	19003	19180
10°	18386	18591	19090
15°	18412	18079	18829
20°	17530	18087	18630
25°	10350	17594	17979
30°	5487	13977	17508
35°	4627	8056	17129
40°	3896	5097	16634
45°	2934	4091	16008
50°	2267	3388	15258
55°	1817	2705	14094
60°	1416	2009	12726
65°	1070	1704	11179
70°	933	1339	9656
75°	724	1015	8190
80°	698	794	6207
85°	614	735	3960



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.0	6.3
10°-20°	45.4	18.0
20°-30°	58.7	23.3
30°-40°	48.4	19.2
40°-50°	38.5	15.3
50°-60°	23.6	9.4
60°-70°	13.1	5.2
70°-80°	6.1	2.4
80°-90°	1.9	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°	120.0	47.6
0°-40°	168.4	66.9
0°-60°	230.5	91.5
0°-90°	251.6	99.9
90°-120°	0.3	0.1
90°-150°	0.3	0.1
90°-180°	0.0	0.0
0°-180°	251.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	170	170	170	170	170	
5°	168	168	168	168	168	16
15°	163	162	159	161	161	46
25°	89	112	148	142	144	42
35°	37	38	63	124	124	23
45°	21	23	28	89	100	16
55°	11	12	16	34	72	10
65°	5	6	8	14	42	6
75°	3	3	3	6	19	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°	169.9	169.9	169.9	169.9	169.9
2.5°	169.9	169.9	169.9	169.2	169.2
5°	168.5	168.5	168.5	168.5	168.5
7.5°	166.5	166.5	167.2	167.2	167.2
10°	163.9	163.9	164.6	165.2	165.9
12.5°	162.6	161.9	161.3	163.2	163.2
15°	163.2	161.9	158.6	160.6	160.6
17.5°	162.6	162.6	157.3	157.3	158.0
20°	153.3	158.6	156.0	152.7	154.7
22.5°	126.2	143.4	153.3	147.4	149.4
25°	88.6	112.4	148.0	142.1	144.1
27.5°	59.5	78.0	135.5	136.8	138.8
30°	45.6	54.2	113.7	132.8	134.2
32.5°	39.7	42.3	86.6	128.2	128.9
35°	37.0	37.7	62.8	123.6	124.3
37.5°	33.7	34.4	46.9	118.3	119.0
40°	29.7	31.1	37.7	111.0	113.0
42.5°	25.1	27.1	32.4	101.8	107.1
45°	21.1	23.1	28.4	88.6	100.5
47.5°	17.2	19.2	25.1	74.0	93.8
50°	15.2	15.9	21.8	58.8	87.2
52.5°	13.2	13.2	18.5	44.9	80.0
55°	11.2	11.9	15.9	34.4	72.0
57.5°	9.9	9.9	12.6	26.4	64.1
60°	7.9	8.6	10.6	21.8	56.8
62.5°	6.6	7.3	9.3	17.8	49.6
65°	5.3	5.9	7.9	14.5	42.3
67.5°	4.6	4.6	6.6	11.9	35.7
70°	4.0	4.0	5.3	9.3	29.7
72.5°	3.3	3.3	4.6	7.3	23.8
75°	2.6	2.6	3.3	5.9	19.2
77.5°	2.0	2.0	2.6	4.6	14.5
80°	2.0	2.0	2.0	3.3	9.9
82.5°	1.3	1.3	2.0	2.0	5.9
85°	1.3	1.3	1.3	1.3	3.3
87.5°	1.3	1.3	1.3	0.7	0.7
90°	0.7	0.7	0.7	0.7	0.0
92.5°	0.7	0.7	0.7	0.0	0.0
95°	0.7	0.7	0.0	0.0	0.0
97.5°	0.7	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)