

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: P273501

Luminaire Tested: **0.10-3W-840-45-OD-STD-UNV-AN-1F6**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P273501
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-840-45-OD-STD-UNV-AN-1F6
Description: iO LIGHTING SERIES 1.5 LINEAR LED LUMINAIRE, 45 DEGREE OPTIC.
HIGH OUTPUT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 267.0 lumens
Efficiency: N/A
Efficacy: 30.0 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

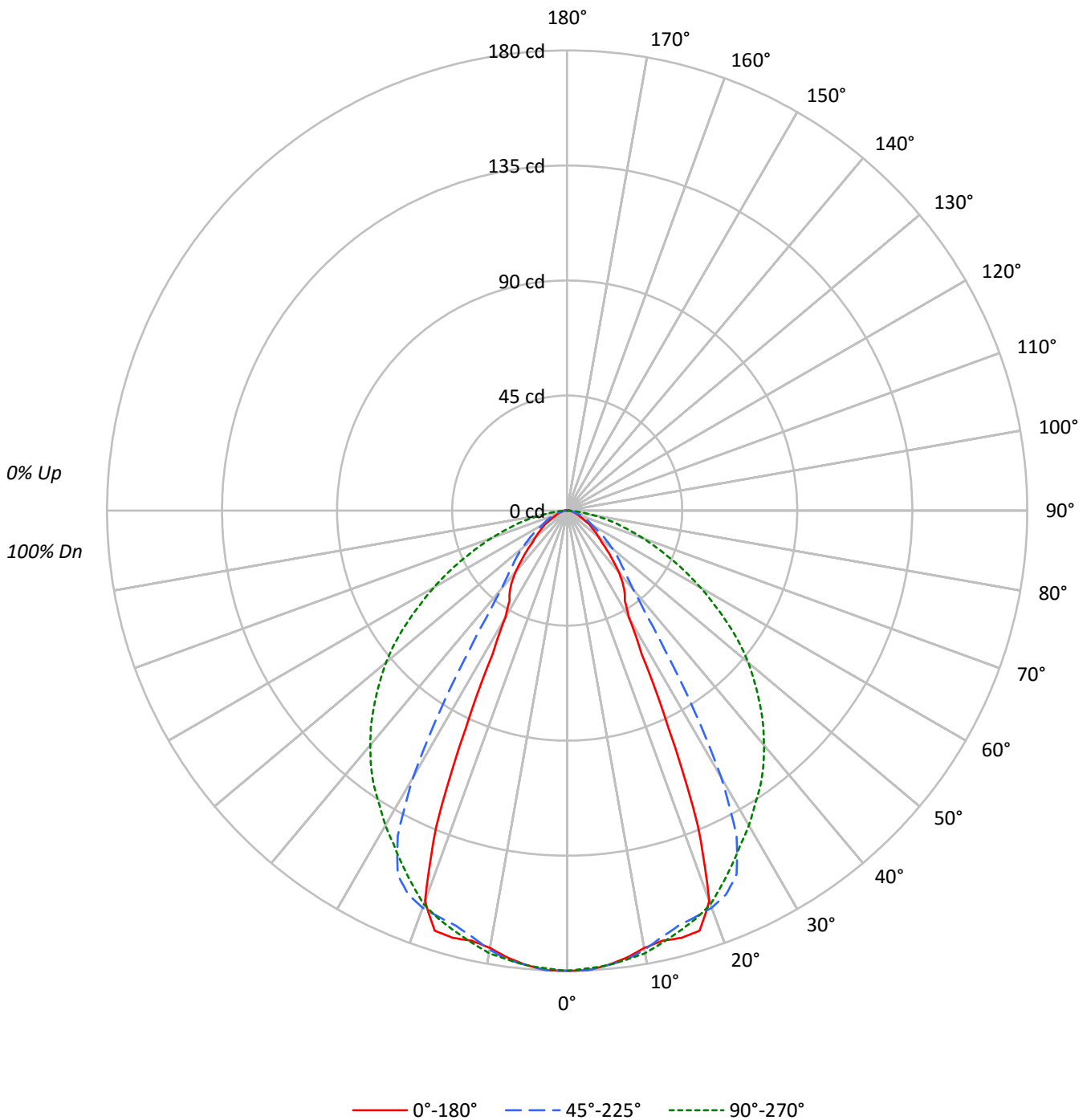
Input Watts (W): 8.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P273501

CATALOG NUMBER: 0.10-3W-840-45-OD-STD-UNV-AN-1F6

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°	20425	20425	20425
5°	20073	20142	20330
10°	19485	19698	20229
15°	19518	19162	19954
20°	18582	19165	19738
25°	10969	18652	19052
30°	5812	14813	18552
35°	4902	8543	18149
40°	4132	5394	17635
45°	3115	4336	16964
50°	2402	3590	16185
55°	1930	2858	14955
60°	1505	2122	13488
65°	1131	1812	11840
70°	979	1415	10241
75°	780	1076	8659
80°	733	833	6584
85°	661	791	4200



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.9	6.3
10°-20°	48.1	18.0
20°-30°	62.2	23.3
30°-40°	51.3	19.2
40°-50°	40.8	15.3
50°-60°	25.0	9.4
60°-70°	13.9	5.2
70°-80°	6.5	2.4
80°-90°	2.0	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°	127.2	47.7
0°-40°	178.5	66.9
0°-60°	244.3	91.5
0°-90°	266.7	99.9
90°-120°	0.3	0.1
90°-150°	0.3	0.1
90°-180°	0.0	0.0
0°-180°	267.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	180	180	180	180	180	
5°	179	179	179	179	179	17
15°	173	172	168	170	170	48
25°	94	119	157	151	153	44
35°	39	40	67	131	132	24
45°	22	24	30	94	106	17
55°	12	13	17	36	76	11
65°	6	6	8	15	45	6
75°	3	3	4	6	20	3
85°	1	1	1	1	4	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



TEST NUMBER: P273501

CATALOG NUMBER: 0.10-3W-840-45-OD-STD-UNV-AN-1F6

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	180.0	180.0	180.0	180.0	180.0
2.5°	180.0	180.0	180.0	179.3	179.3
5°	178.6	178.6	178.6	178.6	178.6
7.5°	176.5	176.5	177.2	177.2	177.2
10°	173.7	173.7	174.4	175.1	175.8
12.5°	172.3	171.6	170.9	173.0	173.0
15°	173.0	171.6	168.1	170.2	170.2
17.5°	172.3	172.3	166.7	166.7	167.4
20°	162.5	168.1	165.3	161.8	163.9
22.5°	133.8	152.0	162.5	156.2	158.3
25°	93.9	119.1	156.9	150.6	152.7
27.5°	63.1	82.7	143.6	145.0	147.1
30°	48.3	57.4	120.5	140.8	142.2
32.5°	42.0	44.8	91.8	135.9	136.6
35°	39.2	39.9	66.6	131.0	131.7
37.5°	35.7	36.4	49.7	125.4	126.1
40°	31.5	32.9	39.9	117.7	119.8
42.5°	26.6	28.7	34.3	107.9	113.5
45°	22.4	24.5	30.1	93.9	106.5
47.5°	18.2	20.3	26.6	78.5	99.5
50°	16.1	16.8	23.1	62.4	92.5
52.5°	14.0	14.0	19.6	47.6	84.8
55°	11.9	12.6	16.8	36.4	76.4
57.5°	10.5	10.5	13.3	28.0	68.0
60°	8.4	9.1	11.2	23.1	60.2
62.5°	7.0	7.7	9.8	18.9	52.5
65°	5.6	6.3	8.4	15.4	44.8
67.5°	4.9	4.9	7.0	12.6	37.8
70°	4.2	4.2	5.6	9.8	31.5
72.5°	3.5	3.5	4.9	7.7	25.2
75°	2.8	2.8	3.5	6.3	20.3
77.5°	2.1	2.1	2.8	4.9	15.4
80°	2.1	2.1	2.1	3.5	10.5
82.5°	1.4	1.4	2.1	2.1	6.3
85°	1.4	1.4	1.4	1.4	3.5
87.5°	1.4	1.4	1.4	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



TEST NUMBER: P273501

CATALOG NUMBER: 0.10-3W-840-45-OD-STD-UNV-AN-1F6

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)