

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: P273487

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P273487
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-827-45-OD-STD-UNV-AN-1F6
Description: iO LIGHTING SERIES 1.5 LINEAR LED LUMINAIRE, 45 DEGREE OPTIC.
STANDARD OUTPUT
Light Source: 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 98.0 lumens
Efficiency: N/A
Efficacy: 15.8 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

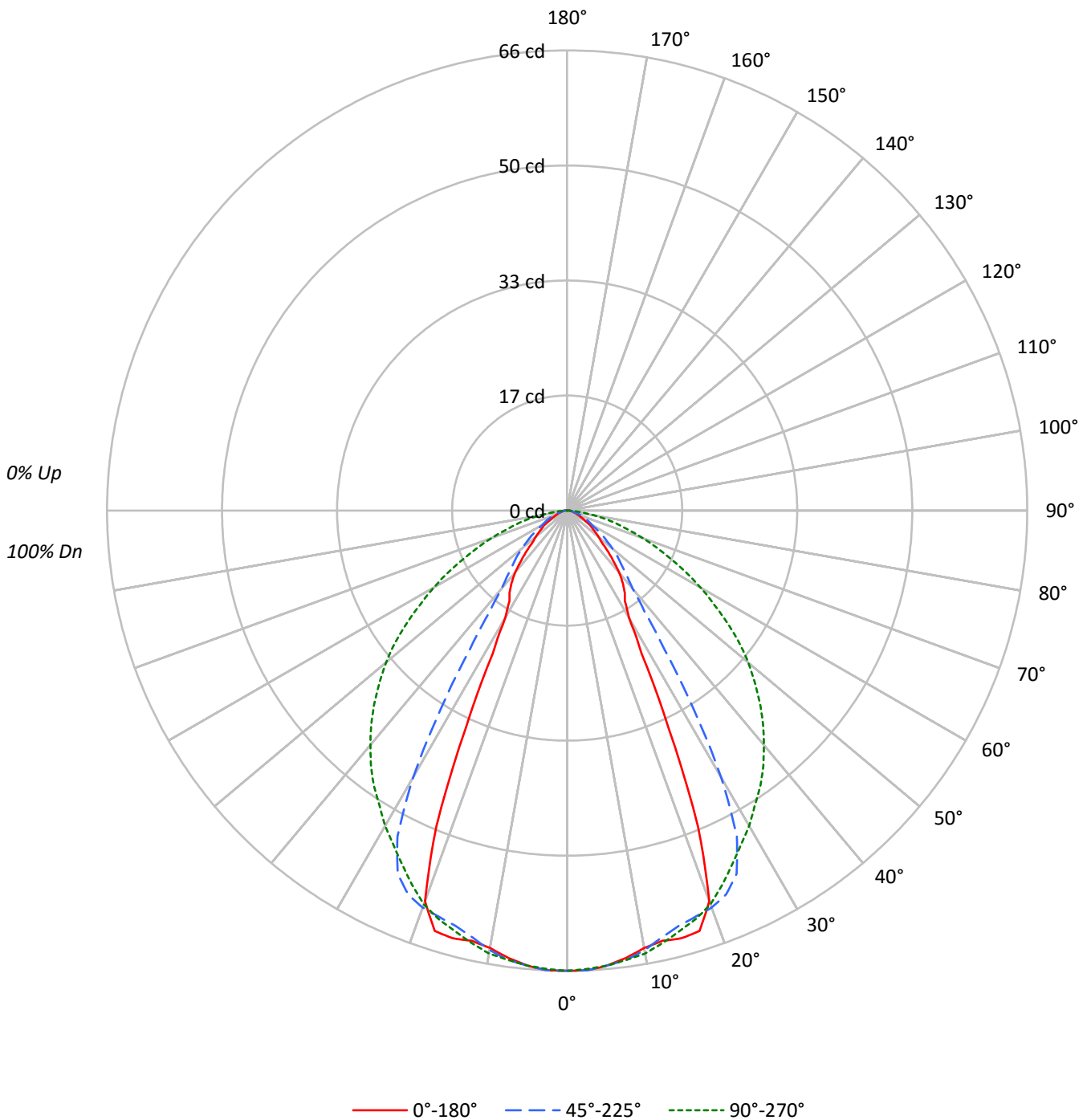
Input Watts (W): 6.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	45	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°	7489	7489	7489
5°	7362	7387	7456
10°	7146	7229	7422
15°	7164	7033	7316
20°	6815	7026	7238
25°	4019	6835	6987
30°	2130	5433	6810
35°	1801	3130	6656
40°	1522	1974	6462
45°	1140	1584	6228
50°	880	1321	5932
55°	714	1055	5481
60°	555	777	4952
65°	424	669	4334
70°	350	530	3771
75°	279	400	3199
80°	279	317	2445
85°	236	283	1560



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.2	6.3
10°-20°	17.7	18.0
20°-30°	22.8	23.3
30°-40°	18.8	19.2
40°-50°	15.0	15.3
50°-60°	9.2	9.4
60°-70°	5.1	5.2
70°-80°	2.4	2.4
80°-90°	0.7	0.7
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°	46.7	47.6
0°-40°	65.5	66.8
0°-60°	89.6	91.5
0°-90°	97.8	99.9
90°-120°	0.1	0.1
90°-150°	0.1	0.1
90°-180°	0.0	0.0
0°-180°	98.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	66	66	66	66	66	
5°	66	66	66	66	66	6
15°	64	63	62	62	62	18
25°	34	44	58	55	56	16
35°	14	15	24	48	48	9
45°	8	9	11	34	39	6
55°	4	5	6	13	28	4
65°	2	2	3	6	16	2
75°	1	1	1	2	8	1
85°	0	0	0	0	1	0
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°	66.0	66.0	66.0	66.0	66.0
2.5°	66.0	66.0	66.0	65.8	65.8
5°	65.5	65.5	65.5	65.5	65.5
7.5°	64.7	64.7	65.0	65.0	65.0
10°	63.7	63.7	64.0	64.2	64.5
12.5°	63.2	62.9	62.7	63.5	63.5
15°	63.5	62.9	61.7	62.4	62.4
17.5°	63.2	63.2	61.1	61.1	61.4
20°	59.6	61.7	60.6	59.3	60.1
22.5°	49.1	55.7	59.6	57.3	58.1
25°	34.4	43.7	57.5	55.2	56.0
27.5°	23.1	30.3	52.7	53.2	54.0
30°	17.7	21.1	44.2	51.6	52.2
32.5°	15.4	16.4	33.7	49.8	50.1
35°	14.4	14.6	24.4	48.0	48.3
37.5°	13.1	13.4	18.2	46.0	46.2
40°	11.6	12.1	14.6	43.2	43.9
42.5°	9.8	10.5	12.6	39.6	41.6
45°	8.2	9.0	11.0	34.4	39.1
47.5°	6.7	7.5	9.8	28.8	36.5
50°	5.9	6.2	8.5	22.9	33.9
52.5°	5.1	5.1	7.2	17.5	31.1
55°	4.4	4.6	6.2	13.4	28.0
57.5°	3.9	3.9	4.9	10.3	24.9
60°	3.1	3.3	4.1	8.5	22.1
62.5°	2.6	2.8	3.6	6.9	19.3
65°	2.1	2.3	3.1	5.7	16.4
67.5°	1.8	1.8	2.6	4.6	13.9
70°	1.5	1.5	2.1	3.6	11.6
72.5°	1.3	1.3	1.8	2.8	9.2
75°	1.0	1.0	1.3	2.3	7.5
77.5°	0.8	0.8	1.0	1.8	5.7
80°	0.8	0.8	0.8	1.3	3.9
82.5°	0.5	0.5	0.8	0.8	2.3
85°	0.5	0.5	0.5	0.5	1.3
87.5°	0.5	0.5	0.5	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)