

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: P273507

Luminaire Tested: **0.10-5W-835-45-OD-STD-UNV-AN-1F6**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P273507
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-835-45-OD-STD-UNV-AN-1F6
Description: iO LIGHTING SERIES 1.5 LINEAR LED LUMINAIRE, 45 DEGREE OPTIC.
VERY HIGH OUTPUT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 396.4 lumens
Efficiency: N/A
Efficacy: 35.1 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

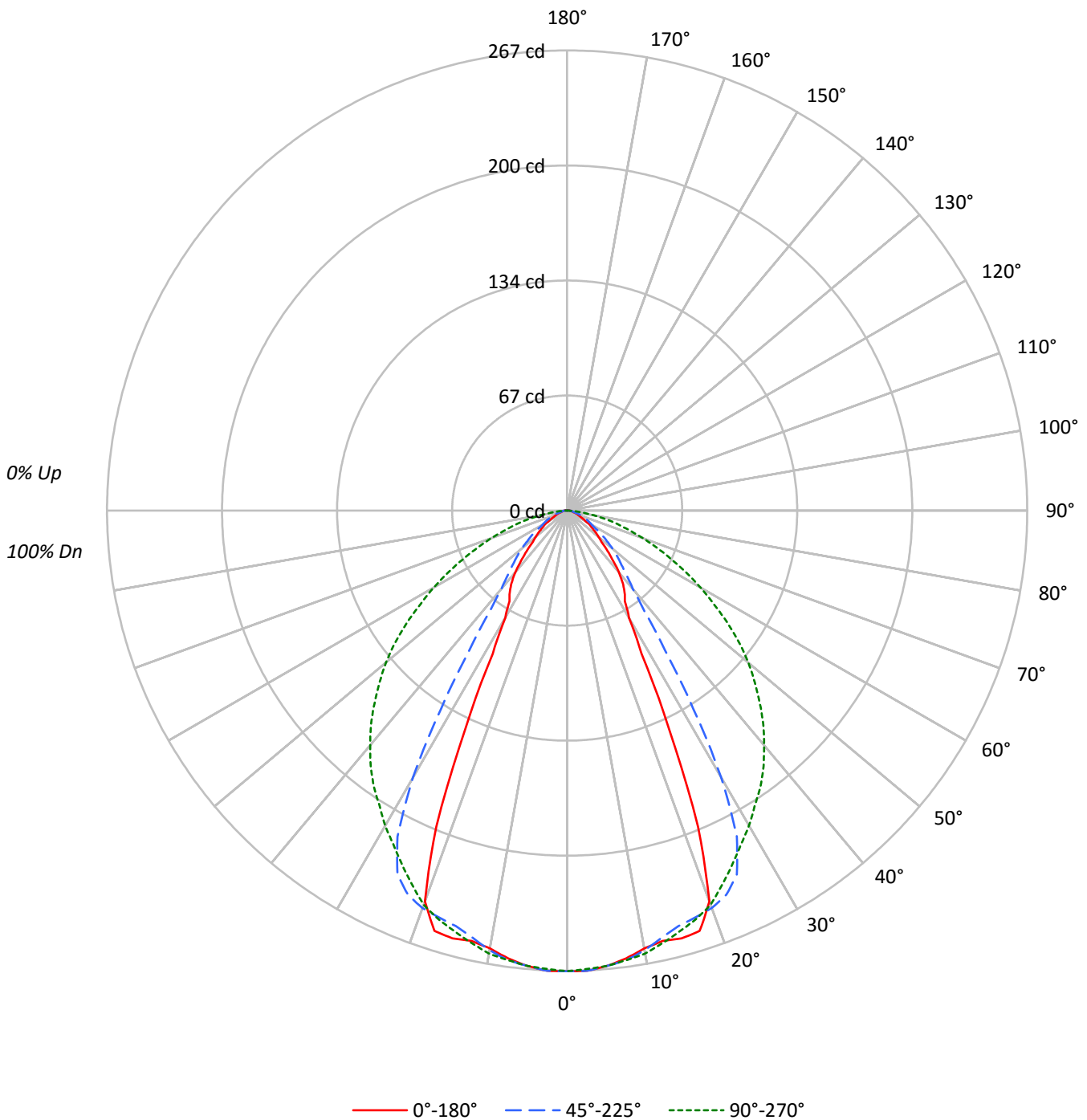
Input Watts (W): 11.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	30330	30330	30330
5°	29806	29909	30187
10°	28930	29254	30033
15°	28984	28452	29626
20°	27592	28451	29312
25°	16285	27699	28285
30°	8640	21992	27541
35°	7278	12674	26941
40°	6140	8017	26173
45°	4631	6439	25183
50°	3565	5330	24024
55°	2871	4253	22198
60°	2240	3146	20030
65°	1676	2697	17601
70°	1446	2097	15216
75°	1170	1599	12883
80°	1082	1230	9781
85°	991	1187	6240



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.1	6.3
10°-20°	71.5	18.0
20°-30°	92.3	23.3
30°-40°	76.1	19.2
40°-50°	60.6	15.3
50°-60°	37.1	9.4
60°-70°	20.6	5.2
70°-80°	9.7	2.4
80°-90°	2.9	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°	188.9	47.6
0°-40°	265.0	66.9
0°-60°	362.8	91.5
0°-90°	396.0	99.9
90°-120°	0.4	0.1
90°-150°	0.4	0.1
90°-180°	0.0	0.0
0°-180°	396.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	267	267	267	267	267	
5°	265	265	265	265	265	25
15°	257	255	250	253	253	72
25°	139	177	233	224	227	66
35°	58	59	99	194	196	36
45°	33	36	45	139	158	26
55°	18	19	25	54	113	16
65°	8	9	12	23	67	9
75°	4	4	5	9	30	5
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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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	267.3	267.3	267.3	267.3	267.3
2.5°	267.3	267.3	267.3	266.2	266.2
5°	265.2	265.2	265.2	265.2	265.2
7.5°	262.1	262.1	263.1	263.1	263.1
10°	257.9	257.9	259.0	260.0	261.0
12.5°	255.8	254.8	253.8	256.9	256.9
15°	256.9	254.8	249.6	252.7	252.7
17.5°	255.8	255.8	247.5	247.5	248.6
20°	241.3	249.6	245.4	240.2	243.4
22.5°	198.6	225.7	241.3	231.9	235.0
25°	139.4	176.8	233.0	223.6	226.7
27.5°	93.6	122.7	213.2	215.3	218.4
30°	71.8	85.3	178.9	209.0	211.1
32.5°	62.4	66.6	136.2	201.8	202.8
35°	58.2	59.3	98.8	194.5	195.5
37.5°	53.0	54.1	73.8	186.2	187.2
40°	46.8	48.9	59.3	174.7	177.8
42.5°	39.5	42.6	51.0	160.2	168.5
45°	33.3	36.4	44.7	139.4	158.1
47.5°	27.0	30.2	39.5	116.5	147.7
50°	23.9	25.0	34.3	92.6	137.3
52.5°	20.8	20.8	29.1	70.7	125.8
55°	17.7	18.7	25.0	54.1	113.4
57.5°	15.6	15.6	19.8	41.6	100.9
60°	12.5	13.5	16.6	34.3	89.4
62.5°	10.4	11.4	14.6	28.1	78.0
65°	8.3	9.4	12.5	22.9	66.6
67.5°	7.3	7.3	10.4	18.7	56.2
70°	6.2	6.2	8.3	14.6	46.8
72.5°	5.2	5.2	7.3	11.4	37.4
75°	4.2	4.2	5.2	9.4	30.2
77.5°	3.1	3.1	4.2	7.3	22.9
80°	3.1	3.1	3.1	5.2	15.6
82.5°	2.1	2.1	3.1	3.1	9.4
85°	2.1	2.1	2.1	2.1	5.2
87.5°	2.1	2.1	2.1	1.0	1.0
90°	1.0	1.0	1.0	1.0	0.0
92.5°	1.0	1.0	1.0	0.0	0.0
95°	1.0	1.0	0.0	0.0	0.0
97.5°	1.0	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)