

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: P273505

Luminaire Tested: **0.10-5W-830-45-OD-STD-UNV-AN-1F6**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P273505
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-830-45-OD-STD-UNV-AN-1F6
Description: iO LIGHTING SERIES 1.5 LINEAR LED LUMINAIRE, 45 DEGREE OPTIC.
VERY HIGH OUTPUT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 381.2 lumens
Efficiency: N/A
Efficacy: 33.7 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

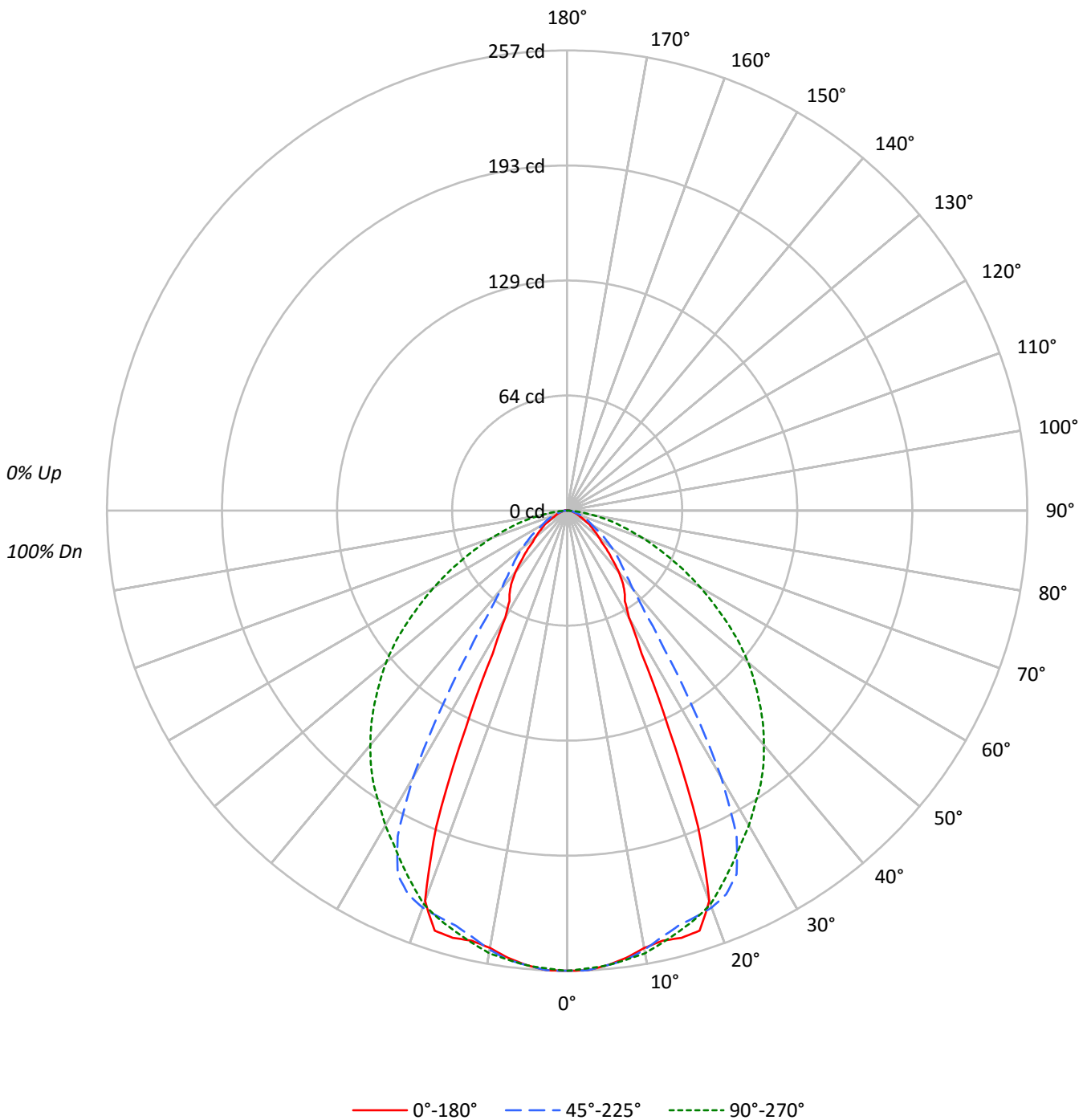
Input Watts (W): 11.3
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79
3	97	88	82	76	94	87	81	76	84	79	74	81	77	73	79	75	72	70
4	90	80	73	68	88	79	72	67	77	71	66	74	70	65	72	68	65	63
5	84	73	66	61	82	72	65	60	70	64	60	69	63	59	67	62	58	57
6	79	68	60	55	77	67	60	54	65	59	54	63	58	54	62	57	53	51
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47
8	69	58	51	46	68	57	50	45	56	50	45	55	49	45	54	49	45	43
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	29162	29162	29162
5°	28659	28758	29026
10°	27820	28124	28882
15°	27867	27357	28489
20°	26529	27362	28180
25°	15654	26629	27199
30°	8303	21144	26484
35°	7003	12186	25907
40°	5903	7706	25172
45°	4450	6194	24211
50°	3431	5128	23097
55°	2757	4083	21337
60°	2150	3032	19269
65°	1615	2589	16914
70°	1399	2021	14630
75°	1114	1538	12371
80°	1047	1190	9405
85°	944	1130	6000



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.2	6.3
10°-20°	68.7	18.0
20°-30°	88.7	23.3
30°-40°	73.2	19.2
40°-50°	58.3	15.3
50°-60°	35.7	9.4
60°-70°	19.8	5.2
70°-80°	9.3	2.4
80°-90°	2.8	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°	181.6	47.6
0°-40°	254.8	66.9
0°-60°	348.8	91.5
0°-90°	380.7	99.9
90°-120°	0.4	0.1
90°-150°	0.4	0.1
90°-180°	0.0	0.0
0°-180°	381.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	257	257	257	257	257	
5°	255	255	255	255	255	24
15°	247	245	240	243	243	69
25°	134	170	224	215	218	63
35°	56	57	95	187	188	35
45°	32	35	43	134	152	25
55°	17	18	24	52	109	15
65°	8	9	12	22	64	8
75°	4	4	5	9	29	4
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°	257	257	257	257	257
2.5°	257	257	257	256	256
5°	255	255	255	255	255
7.5°	252	252	253	253	253
10°	248	248	249	250	251
12.5°	246	245	244	247	247
15°	247	245	240	243	243
17.5°	246	246	238	238	239
20°	232	240	236	231	234
22.5°	191	217	232	223	226
25°	134	170	224	215	218
27.5°	90	118	205	207	210
30°	69	82	172	201	203
32.5°	60	64	131	194	195
35°	56	57	95	187	188
37.5°	51	52	71	179	180
40°	45	47	57	168	171
42.5°	38	41	49	154	162
45°	32	35	43	134	152
47.5°	26	29	38	112	142
50°	23	24	33	89	132
52.5°	20	20	28	68	121
55°	17	18	24	52	109
57.5°	15	15	19	40	97
60°	12	13	16	33	86
62.5°	10	11	14	27	75
65°	8	9	12	22	64
67.5°	7	7	10	18	54
70°	6	6	8	14	45
72.5°	5	5	7	11	36
75°	4	4	5	9	29
77.5°	3	3	4	7	22
80°	3	3	3	5	15
82.5°	2	2	3	3	9
85°	2	2	2	2	5
87.5°	2	2	2	1	1
90°	1	1	1	1	0
92.5°	1	1	1	0	0
95°	1	1	0	0	0
97.5°	1	0	0	0	0
100°	0	0	0	0	0
102.5°	0	0	0	0	0
105°	0	0	0	0	0
107.5°	0	0	0	0	0
110°	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
115°	0	0	0	0	0
117.5°	0	0	0	0	0
120°	0	0	0	0	0
122.5°	0	0	0	0	0
125°	0	0	0	0	0
127.5°	0	0	0	0	0
130°	0	0	0	0	0
132.5°	0	0	0	0	0
135°	0	0	0	0	0
137.5°	0	0	0	0	0
140°	0	0	0	0	0
142.5°	0	0	0	0	0
145°	0	0	0	0	0
147.5°	0	0	0	0	0
150°	0	0	0	0	0
152.5°	0	0	0	0	0
155°	0	0	0	0	0
157.5°	0	0	0	0	0
160°	0	0	0	0	0
162.5°	0	0	0	0	0
165°	0	0	0	0	0
167.5°	0	0	0	0	0
170°	0	0	0	0	0
172.5°	0	0	0	0	0
175°	0	0	0	0	0
177.5°	0	0	0	0	0
180°	0	0	0	0	0

(END OF REPORT)