

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: P622391

Luminaire Tested: **SELDWTA50PSBZSD\_ Always On**

Issue Date: 9/27/2022

Tested By:

Approved By:



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**Test Information**

Test Method: LM-79-08  
 Report Number: P622391  
 Test Lab: COOPER LIGHTING SOLUTIONS  
 Issue Date: 9/27/2022  
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
 Product Line: iO LED  
 Catalog Number: SELDWTA50PSBZSD\_ Always On  
 Description: ARCHITECTURAL OUTDOOR CAPABLE EMERGENCY LIGHT WITH PHOTOSENSOR,  
 5000K, ALWAYS ON MODE, SINGLE LAMP HEAD  
 Light Source: HIGH LUMEN LED 5000K CCT  
 Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
 Luminaire Lumens: 440.9 lumens  
 Efficiency: N/A  
 Efficacy: 133.6 lumens/watt  
 Spacing Criteria (0/90/45): 1.35 / 2.61 / 1.46  
 Luminous Opening: Circular (Dia: 0.17' x H: 0')  
 CIE Type: Direct

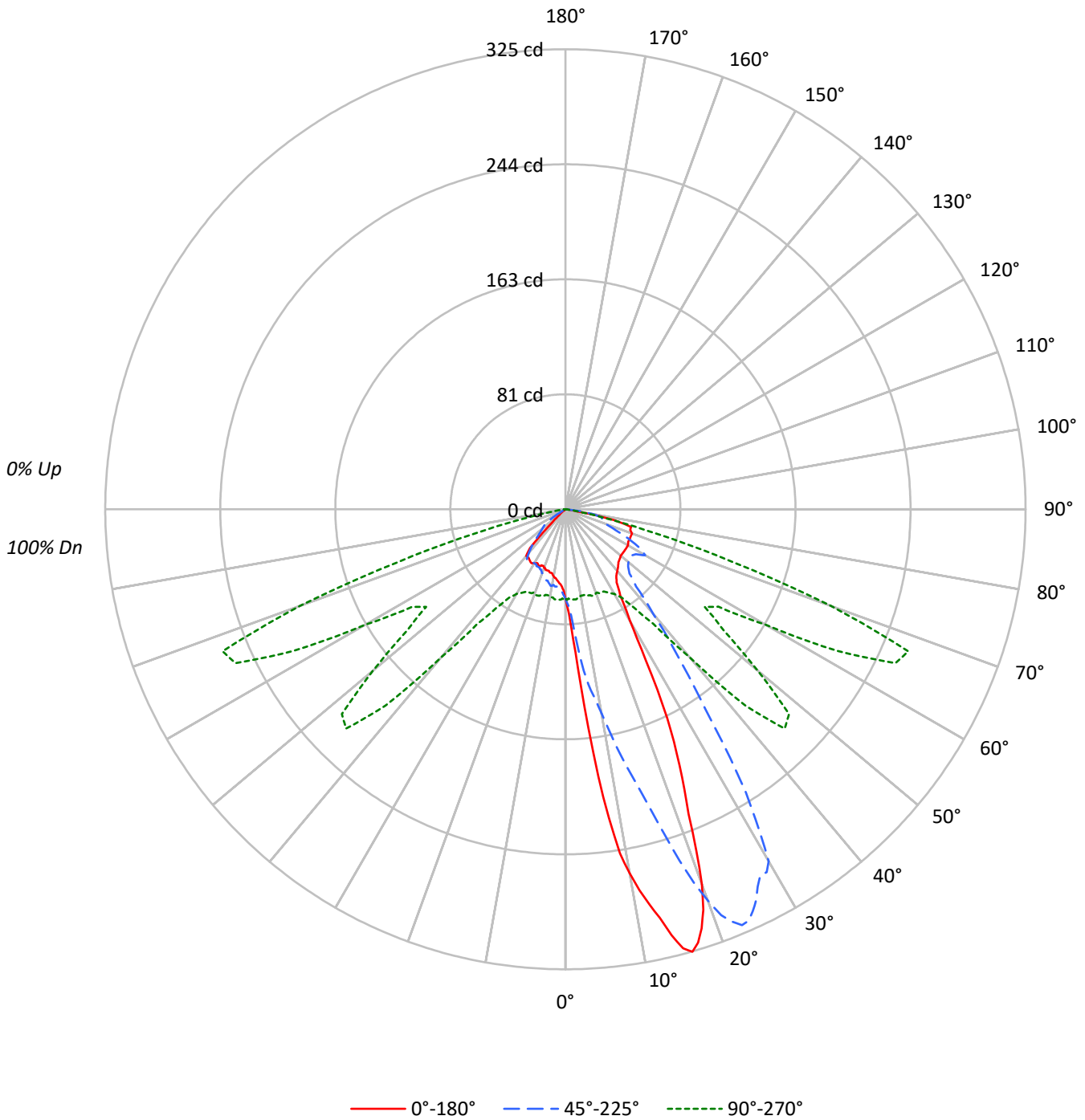
Input Watts (W): 3.3  
 Input Voltage (V): NR  
 Input Current (Ain): NR  
 Voltage Rise (V): NR  
 Power Factor: NR  
 Total Harmonic Distortion (THDi): NR  
 Frequency (hertz): 60  
 Stabilization Time: NR  
 Operation Time: NR  
 Ambient Temperature (°C): NR  
 Test Distance: 25 FT



Meas		Calibration Due Date	
Instrument	Identificatio		
Photometer	GONIO 1 11111111	4/22/2021	10/22/2021
Power Meter	XITRON 2801 IN0197	12/1/2020	12/1/2021
AC Power Source	CHROMA 61505 IN0196	12/1/2020	12/1/2021
DC Power Supply	AGILENT E3634A IN0198	11/30/2020	11/30/2021
Room Thermometer	ONSET IN0143	12/1/2020	12/1/2021

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### Luminous Intensity Polar Plot



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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	109	104	100	96	106	102	98	94	98	94	91	94	91	89	90	88	86	84	84	84	84
2	99	90	83	78	96	88	82	77	85	79	75	82	77	73	78	75	71	69	69	69	69
3	90	79	70	64	87	77	69	63	74	68	62	71	66	61	69	64	60	58	58	58	58
4	82	69	60	53	79	68	60	53	65	58	52	63	57	52	61	55	51	49	49	49	49
5	75	62	52	45	73	60	52	45	58	51	45	56	49	44	54	48	44	42	42	42	42
6	69	55	46	39	67	54	45	39	52	44	39	51	44	38	49	43	38	36	36	36	36
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33	31	31	31	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	30	28	28	28	28
9	55	41	33	27	53	40	32	27	39	32	27	38	31	27	37	31	26	24	24	24	24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22	22	22	22

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	31083	31083	31083
5°	61958	31697	25754
10°	130809	31061	24048
15°	164064	32179	22985
20°	148115	33078	23102
25°	98588	34841	23953
30°	51843	39310	25067
35°	37945	51196	26501
40°	36711	87657	27695
45°	36980	152876	9071
50°	39146	135935	1535
55°	43869	103308	860
60°	50325	160940	987
65°	58372	300148	1167
70°	72127	287211	1443
75°	91501	125814	1906
80°	19889	28413	0
85°	5661	5661	0

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	8.3	1.9
10°-20°	36.6	8.3
20°-30°	61.8	14.0
30°-40°	73.4	16.6
40°-50°	93.6	21.2
50°-60°	72.8	16.5
60°-70°	60.7	13.8
70°-80°	30.4	6.9
80°-90°	3.3	0.8
90°-100°	0.0	0.0
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°	106.7	24.2
0°-40°	180.1	40.8
0°-60°	346.5	78.6
0°-90°	440.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	440.9	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	63	63	63	63	63	
5°	125	96	64	55	52	17
15°	321	207	63	52	45	86
25°	181	313	64	45	44	81
35°	63	172	85	45	44	42
45°	53	64	219	29	13	41
55°	51	57	120	16	1	46
65°	50	49	257	1	1	50
75°	48	27	66	0	1	42
85°	1	3	1	0	0	3
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0
1°	68.0	68.0	66.0	64.0	64.0	62.0	61.0	60.0	58.0
2°	74.0	74.0	69.0	66.0	63.0	61.0	59.0	58.0	56.0
3°	85.0	84.0	75.0	68.0	64.0	60.0	58.0	56.0	54.0
4°	101.1	99.1	84.0	70.0	64.0	59.0	56.0	55.0	53.0
5°	125.1	119.1	96.0	73.0	64.0	58.0	55.0	54.0	52.0
6°	155.1	140.1	109.1	77.0	64.0	58.0	55.0	53.0	51.0
7°	190.1	162.1	120.1	82.0	64.0	58.0	55.0	52.0	50.0
8°	220.1	178.1	129.1	86.0	63.0	58.0	55.0	51.0	49.0
9°	246.1	195.1	136.1	89.0	63.0	57.0	54.0	50.0	49.0
10°	261.1	212.1	146.1	93.0	62.0	56.0	55.0	50.0	48.0
11°	274.1	228.1	157.1	98.1	62.0	56.0	55.0	49.0	47.0
12°	285.1	241.1	170.1	105.1	62.0	56.0	54.0	49.0	46.0
13°	296.2	256.1	182.1	113.1	62.0	55.0	53.0	49.0	46.0
14°	310.2	273.1	194.1	121.1	63.0	55.0	52.0	49.0	46.0
15°	321.2	290.1	207.1	131.1	63.0	55.0	52.0	49.0	45.0
16°	325.2	302.2	223.1	142.1	63.0	54.0	51.0	48.0	45.0
17°	320.2	310.2	241.1	153.1	64.0	52.0	50.0	48.0	45.0
18°	311.2	310.2	261.1	166.1	64.0	52.0	49.0	47.0	45.0
19°	299.2	300.2	279.1	179.1	64.0	51.0	48.0	47.0	44.0
20°	282.1	286.1	294.2	195.1	63.0	51.0	48.0	46.0	44.0
21°	258.1	268.1	307.2	209.1	63.0	50.0	47.0	46.0	43.0
22°	232.1	245.1	314.2	221.1	64.0	50.0	46.0	45.0	43.0
23°	215.1	221.1	319.2	233.1	64.0	49.0	46.0	45.0	43.0
24°	198.1	201.1	318.2	246.1	64.0	49.0	45.0	45.0	44.0
25°	181.1	183.1	313.2	259.1	64.0	48.0	45.0	45.0	44.0
26°	164.1	169.1	307.2	273.1	65.0	48.0	45.0	44.0	44.0
27°	143.1	156.1	299.2	287.1	66.0	48.0	45.0	44.0	43.0
28°	121.1	144.1	293.1	299.2	67.0	48.0	44.0	44.0	43.0
29°	104.1	131.1	293.1	311.2	68.0	48.0	44.0	44.0	44.0
30°	91.0	117.1	287.1	324.2	69.0	48.0	44.0	44.0	44.0
32.5°	72.0	88.0	237.1	359.2	74.0	47.0	44.0	44.0	45.0
35°	63.0	71.0	172.1	392.2	85.0	49.0	45.0	44.0	44.0
37.5°	59.0	62.0	129.1	425.2	102.1	51.0	45.0	44.0	43.0
40°	57.0	58.0	97.0	456.2	136.1	60.0	40.0	40.0	43.0
42.5°	55.0	54.0	74.0	494.3	188.1	57.0	35.0	35.0	37.0
45°	53.0	52.0	64.0	541.3	219.1	52.0	29.0	28.0	13.0
47.5°	52.0	51.0	60.0	531.3	214.1	42.0	24.0	20.0	6.0
50°	51.0	50.0	58.0	483.2	177.1	33.0	21.0	7.0	2.0
52.5°	51.0	49.0	58.0	414.2	141.1	30.0	19.0	3.0	1.0
55°	51.0	49.0	57.0	329.2	120.1	29.0	16.0	1.0	1.0
57.5°	51.0	48.0	59.0	253.1	128.1	31.0	9.0	1.0	1.0
60°	51.0	48.0	65.0	185.1	163.1	30.0	3.0	1.0	1.0
62.5°	50.0	48.0	59.0	140.1	217.1	25.0	1.0	1.0	1.0
65°	50.0	48.0	49.0	108.1	257.1	18.0	1.0	0.0	1.0

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	50.0	47.0	38.0	96.0	262.1	9.0	0.0	0.0	1.0
70°	50.0	43.0	30.0	94.0	199.1	5.0	0.0	1.0	1.0
72.5°	48.0	38.0	28.0	86.0	124.1	3.0	0.0	1.0	1.0
75°	48.0	30.0	27.0	73.0	66.0	1.0	0.0	1.0	1.0
77.5°	35.0	23.0	26.0	59.0	27.0	0.0	0.0	0.0	1.0
80°	7.0	19.0	20.0	39.0	10.0	0.0	0.0	0.0	0.0
82.5°	4.0	7.0	10.0	14.0	2.0	0.0	0.0	0.0	0.0
85°	1.0	2.0	3.0	4.0	1.0	0.0	0.0	0.0	0.0
87.5°	1.0	1.0	2.0	2.0	1.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)