

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: io LED

Report Number: P133531

Luminaire Tested: **LD6A30D010TE ERN6A30840 6LN1LI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P133531  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23397)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD6A30D010TE ERN6A30840 6LN1LI  
Description: PORTFOLIO 6 INCH 50 DEGREE CUTOFF RECESSED DOWNLIGHT  
NARROW DISTRIBUTION WITH SPECULAR CLEAR TRIM  
Light Source: (1) HIGH LUMEN LED 4000K  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2940.0 lumens  
Efficiency: N/A  
Efficacy: 64.8 lumens/watt  
Spacing Criteria (0/90/45): 0.41 / 0.41 / 0.49  
Luminous Opening: Circular (Dia: 0.46' x H: 0')  
CIE Type: Direct

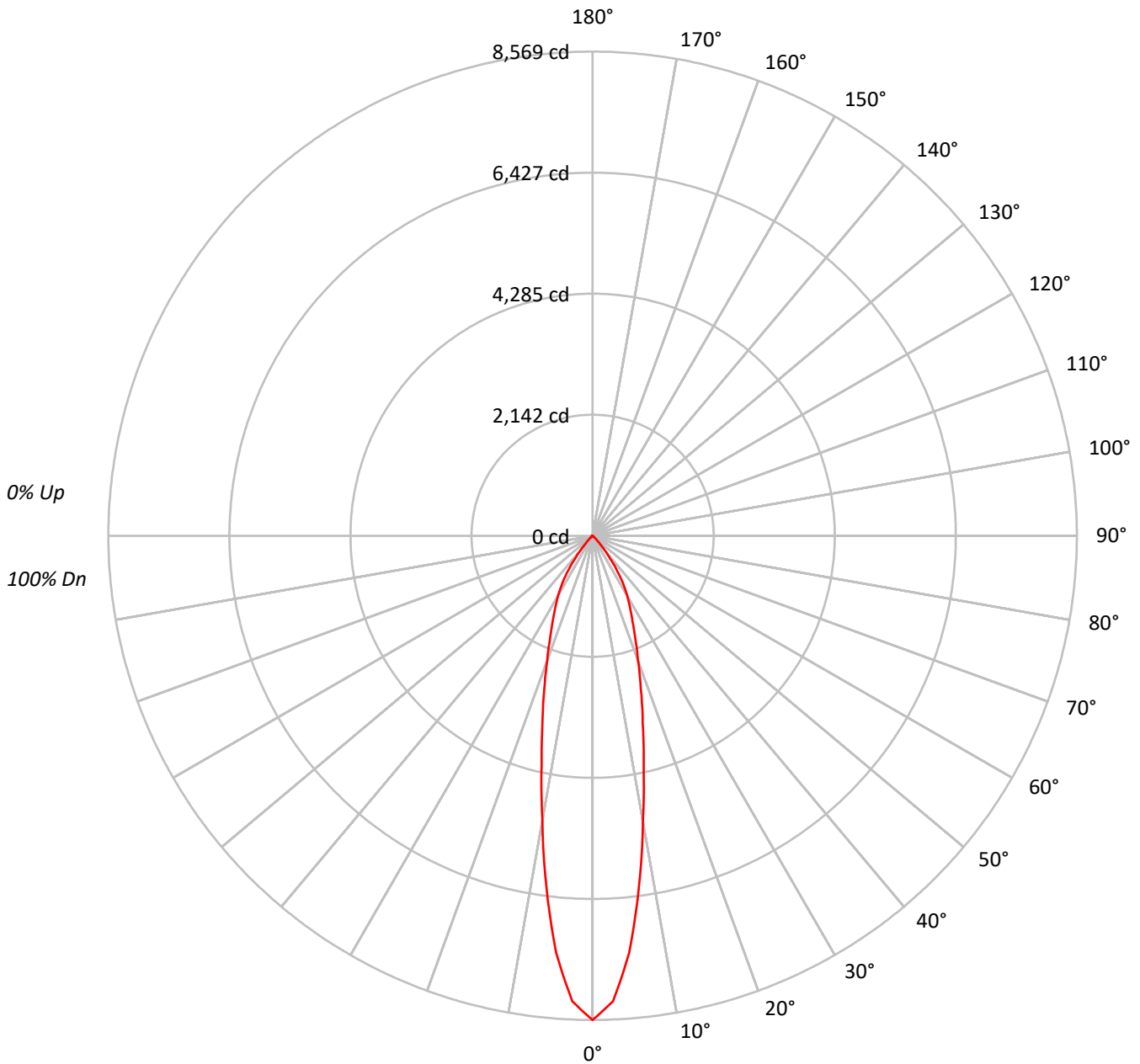
Input Watts (W): 45.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P133531

CATALOG NUMBER: LD6A30D010TE ERN6A30840 6LN1LI

### Luminous Intensity Polar Plot





TEST NUMBER: P133531

CATALOG NUMBER: LD6A30D010TE ERN6A30840 6LN1LI

**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	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	114	112	110	108	112	110	108	106	106	104	103	102	101	100	98	98	97	95	95	95	95
2	109	105	102	99	107	103	100	97	100	98	95	97	95	93	95	93	91	90	90	90	90
3	105	99	95	91	103	98	94	91	95	92	89	93	90	88	91	88	87	85	85	85	85
4	100	94	89	85	99	93	88	85	91	87	84	89	86	83	87	84	82	81	81	81	81
5	96	89	84	80	95	88	83	80	86	82	79	85	81	78	83	80	78	76	76	76	76
6	92	85	79	76	91	84	79	75	82	78	75	81	77	74	80	77	74	73	73	73	73
7	89	81	75	72	87	80	75	72	79	74	71	78	74	71	77	73	70	69	69	69	69
8	85	77	72	68	84	76	71	68	75	71	68	74	70	68	74	70	67	66	66	66	66
9	82	74	68	65	81	73	68	65	72	68	65	71	67	64	71	67	64	63	63	63	63
10	79	70	65	62	78	70	65	62	69	65	62	69	65	62	68	64	62	60	60	60	60

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

	0°
0°	559040
5°	485234
10°	339529
15°	231338
20°	163162
25°	120157
30°	92170
35°	60307
40°	26180
45°	8378
50°	2517
55°	705
60°	535
65°	324
70°	401
75°	0
80°	0
85°	0



TEST NUMBER: P133531

CATALOG NUMBER: LD6A30D010TE ERN6A30840 6LN1LI

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	632.5	21.5
10°-20°	964.6	32.8
20°-30°	778.1	26.5
30°-40°	465.7	15.8
40°-50°	89.2	3.0
50°-60°	7.3	0.2
60°-70°	2.3	0.1
70°-80°	0.3	0.0
80°-90°	0.0	0.0
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°	2375.2	80.8
0°-40°	2840.9	96.6
0°-60°	2937.4	99.9
0°-90°	2940.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2940.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	8569	
5°	7409	632
15°	3425	965
25°	1669	778
35°	757	466
45°	91	89
55°	6	7
65°	2	2
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P133531

CATALOG NUMBER: LD6A30D010TE ERN6A30840 6LN1LI

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	8568.9
2.5°	8249.1
5°	7409.3
7.5°	6272.4
10°	5125.2
12.5°	4165.8
15°	3425.1
17.5°	2839.1
20°	2350.1
22.5°	1970.5
25°	1669.2
27.5°	1427.8
30°	1223.5
32.5°	1006.9
35°	757.2
37.5°	509.6
40°	307.4
42.5°	171.3
45°	90.8
47.5°	47.5
50°	24.8
52.5°	8.3
55°	6.2
57.5°	4.1
60°	4.1
62.5°	2.1
65°	2.1
67.5°	2.1
70°	2.1
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093







— 0°-180°







(END OF REPORT)