

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: P133543

Luminaire Tested: **LD6A30D010TE ERN6A30940 6LN1LI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P133543  
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 ERN6A30940 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: 2684.3 lumens  
Efficiency: N/A  
Efficacy: 59.1 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

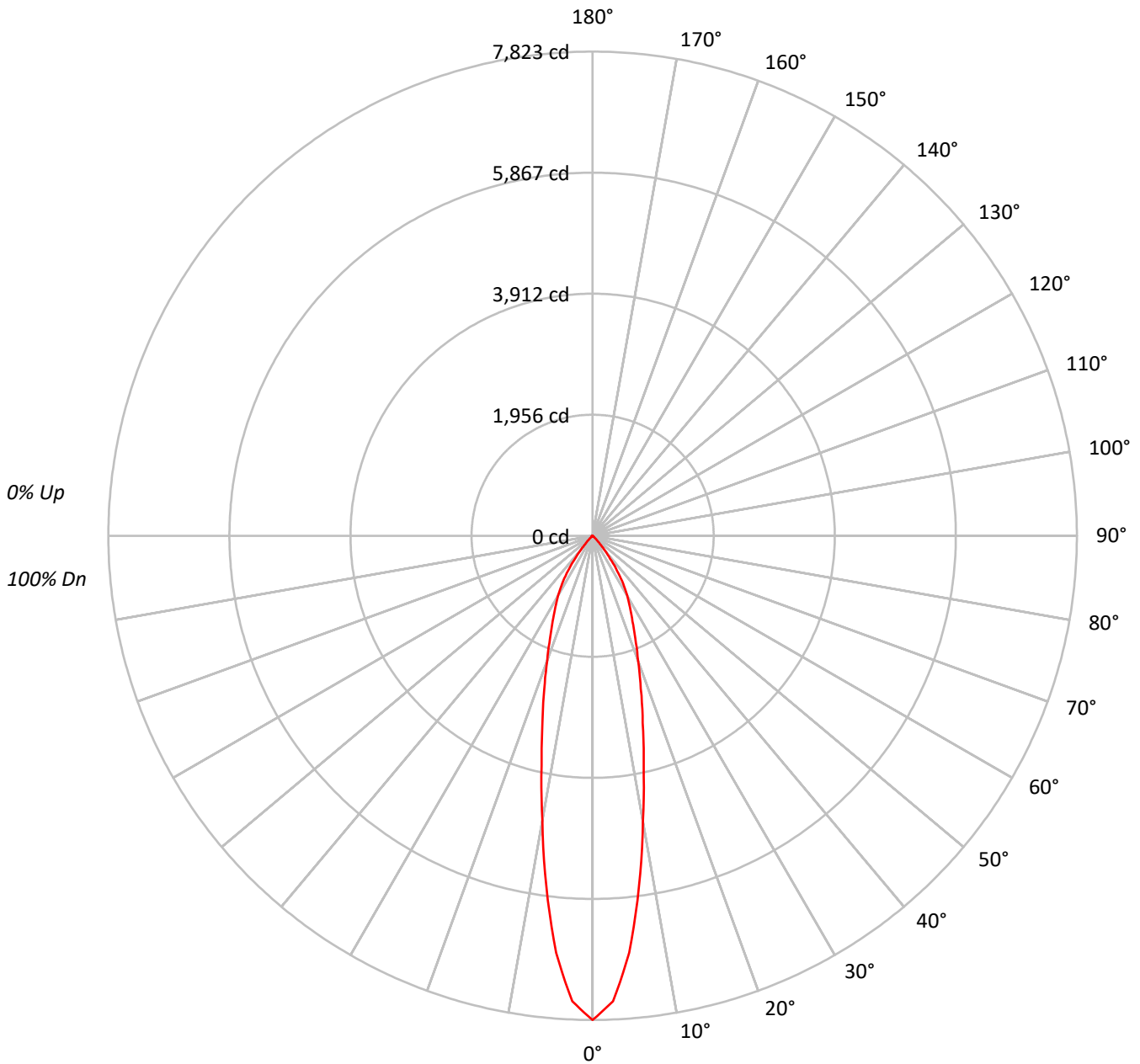
Input Watts (W): 45.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	510404
5°	443019
10°	309990
15°	211211
20°	148964
25°	109705
30°	84155
35°	55058
40°	23906
45°	7649
50°	2294
55°	648
60°	483
65°	293
70°	362
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	577.4	21.5
10°-20°	880.7	32.8
20°-30°	710.4	26.5
30°-40°	425.2	15.8
40°-50°	81.5	3.0
50°-60°	6.6	0.2
60°-70°	2.1	0.1
70°-80°	0.2	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°	2168.6	80.8
0°-40°	2593.8	96.6
0°-60°	2681.9	99.9
0°-90°	2684.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2684.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	7823	
5°	6765	577
15°	3127	881
25°	1524	710
35°	691	425
45°	83	81
55°	6	7
65°	2	2
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	7823.4
2.5°	7531.4
5°	6764.7
7.5°	5726.7
10°	4679.3
12.5°	3803.4
15°	3127.1
17.5°	2592.1
20°	2145.6
22.5°	1799.1
25°	1524.0
27.5°	1303.6
30°	1117.1
32.5°	919.3
35°	691.3
37.5°	465.3
40°	280.7
42.5°	156.4
45°	82.9
47.5°	43.4
50°	22.6
52.5°	7.6
55°	5.7
57.5°	3.7
60°	3.7
62.5°	1.9
65°	1.9
67.5°	1.9
70°	1.9
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



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— 0°-180°







(END OF REPORT)