

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: P135199

Luminaire Tested: **LD6A15D010TE ERN6A15940 6LN1H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P135199  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23370)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD6A15D010TE ERN6A15940 6LN1H  
Description: PORTFOLIO 6 INCH 50 DEGREE CUTOFF RECESSED DOWNLIGHT  
NARROW DISTRIBUTION WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: (1) HIGH LUMEN LED 4000K  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

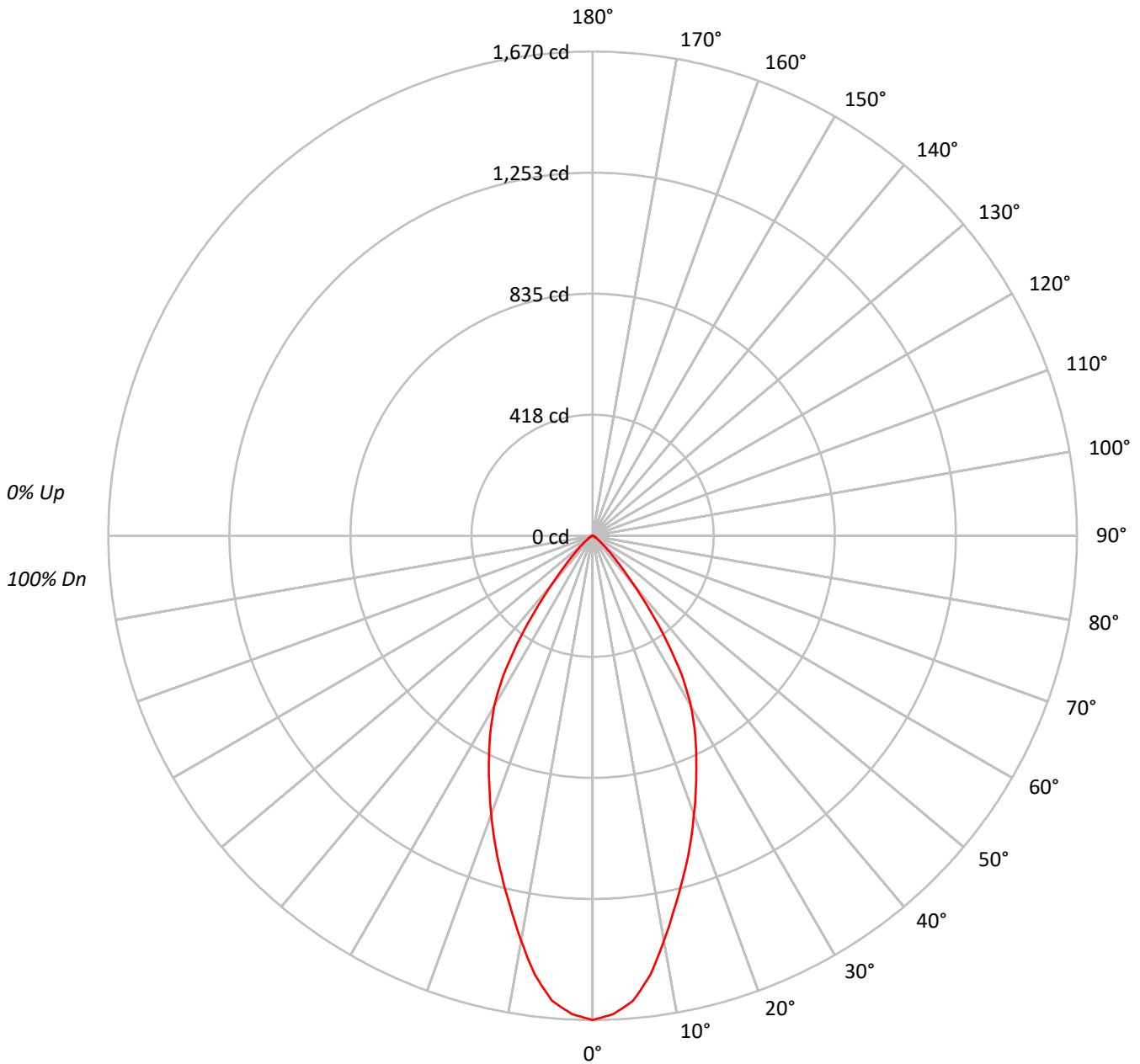
Lumens per Lamp: N/A  
Luminaire Lumens: 1266.4 lumens  
Efficiency: N/A  
Efficacy: 56.0 lumens/watt  
Spacing Criteria (0/90/45): 0.74 / 0.74 / 0.84  
Luminous Opening: Circular (Dia: 0.46' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 22.6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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			
1	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93			
2	108	103	99	95	106	101	97	94	98	95	92	95	92	90	92	90	88	87			
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	80			
4	97	89	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75			
5	92	84	78	73	90	83	77	73	81	76	72	79	75	72	78	74	71	70			
6	87	78	72	68	86	78	72	68	76	71	67	75	70	67	73	69	66	65			
7	83	74	68	63	82	73	67	63	72	67	63	71	66	63	69	65	62	61			
8	79	69	63	59	78	69	63	59	68	63	59	67	62	59	66	62	58	57			
9	75	66	60	56	74	65	59	56	64	59	55	63	59	55	62	58	55	54			
10	72	62	56	52	71	62	56	52	61	56	52	60	55	52	59	55	52	51			

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

	0°
0°	108965
5°	105406
10°	93971
15°	81908
20°	70934
25°	60863
30°	51091
35°	35856
40°	18660
45°	8876
50°	4659
55°	2525
60°	1748
65°	1142
70°	839
75°	731
80°	564
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	147.4	11.6
10°-20°	338.8	26.8
20°-30°	387.8	30.6
30°-40°	276.2	21.8
40°-50°	83.5	6.6
50°-60°	21.7	1.7
60°-70°	8.0	0.6
70°-80°	2.7	0.2
80°-90°	0.2	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°	874.0	69.0
0°-40°	1150.2	90.8
0°-60°	1255.4	99.1
0°-90°	1266.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1266.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1670	
5°	1610	147
15°	1213	339
25°	846	388
35°	450	276
45°	96	83
55°	22	22
65°	7	8
75°	3	3
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1670.2
2.5°	1651.0
5°	1609.5
7.5°	1526.6
10°	1418.5
12.5°	1310.5
15°	1212.7
17.5°	1118.0
20°	1021.7
22.5°	931.4
25°	845.5
27.5°	764.1
30°	678.2
32.5°	574.5
35°	450.2
37.5°	322.8
40°	219.1
42.5°	145.1
45°	96.2
47.5°	66.6
50°	45.9
52.5°	29.7
55°	22.2
57.5°	16.3
60°	13.4
62.5°	10.4
65°	7.4
67.5°	5.9
70°	4.4
72.5°	2.9
75°	2.9
77.5°	1.5
80°	1.5
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)