

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: P135166

Luminaire Tested: **LD6A10D010TE ERN6A10935 6LN1H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P135166  
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: LD6A10D010TE ERN6A10935 6LN1H  
Description: PORTFOLIO 6 INCH 50 DEGREE CUTOFF RECESSED DOWNLIGHT  
NARROW DISTRIBUTION WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: (1) HIGH LUMEN LED 3500K  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 953.8 lumens  
Efficiency: N/A  
Efficacy: 68.1 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

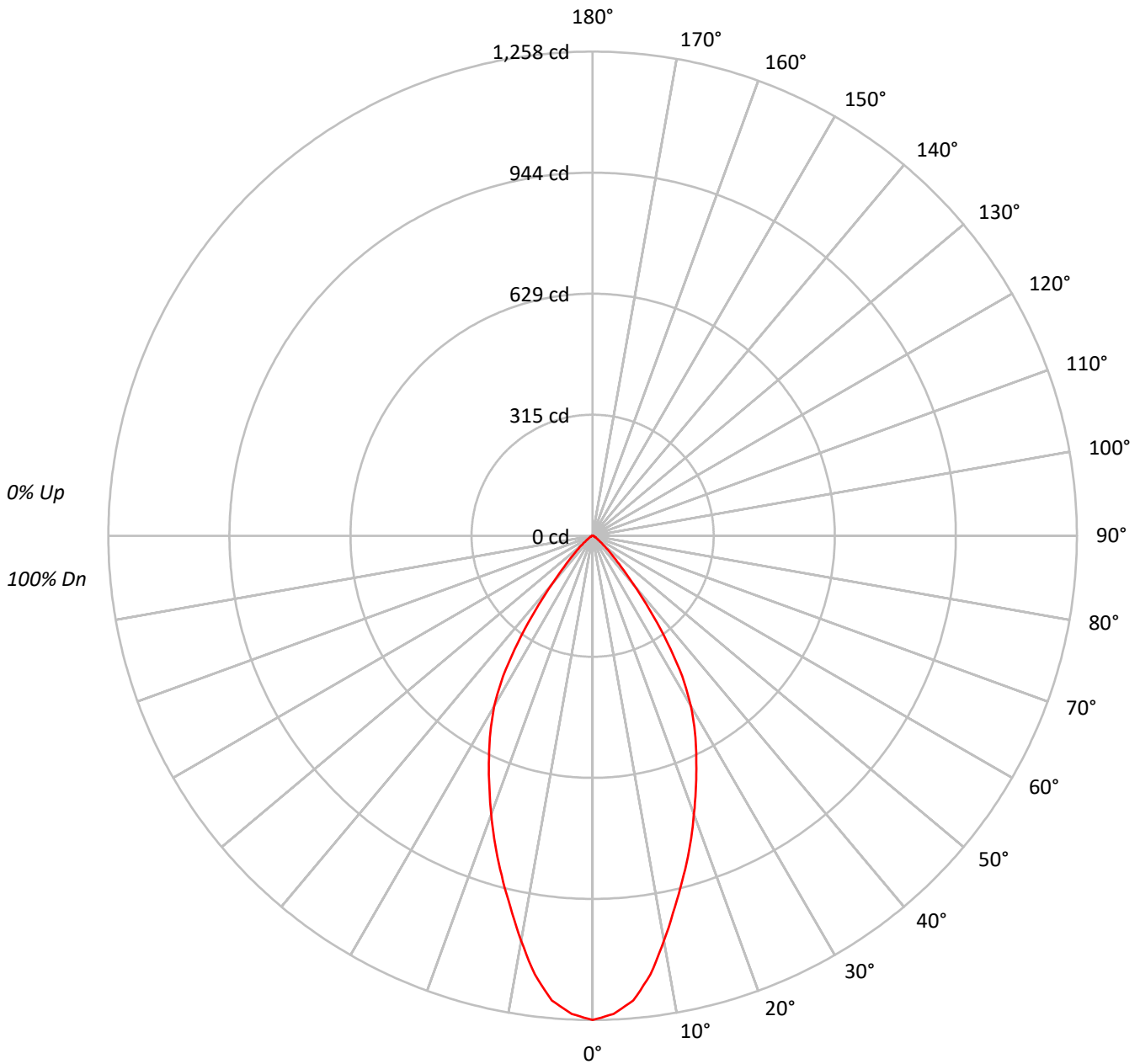
Input Watts (W): 14  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	82073
5°	79393
10°	70785
15°	61693
20°	53432
25°	45840
30°	38480
35°	26999
40°	14061
45°	6689
50°	3512
55°	1900
60°	1305
65°	864
70°	629
75°	555
80°	413
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	111.0	11.6
10°-20°	255.2	26.8
20°-30°	292.1	30.6
30°-40°	208.1	21.8
40°-50°	62.9	6.6
50°-60°	16.3	1.7
60°-70°	6.0	0.6
70°-80°	2.0	0.2
80°-90°	0.1	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°	658.3	69.0
0°-40°	866.3	90.8
0°-60°	945.6	99.1
0°-90°	953.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	953.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1258	
5°	1212	111
15°	913	255
25°	637	292
35°	339	208
45°	72	63
55°	17	16
65°	6	6
75°	2	2
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1258.0
2.5°	1243.5
5°	1212.3
7.5°	1149.8
10°	1068.5
12.5°	987.0
15°	913.4
17.5°	842.0
20°	769.6
22.5°	701.5
25°	636.8
27.5°	575.5
30°	510.8
32.5°	432.7
35°	339.0
37.5°	243.1
40°	165.1
42.5°	109.3
45°	72.5
47.5°	50.2
50°	34.6
52.5°	22.3
55°	16.7
57.5°	12.3
60°	10.0
62.5°	7.8
65°	5.6
67.5°	4.5
70°	3.3
72.5°	2.2
75°	2.2
77.5°	1.1
80°	1.1
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)