

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: P135161

Luminaire Tested: **LD6A10D010TE ERN6A10830 6LN1H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P135161  
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 ERN6A10830 6LN1H  
Description: PORTFOLIO 6 INCH 50 DEGREE CUTOFF RECESSED DOWNLIGHT  
NARROW DISTRIBUTION WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: (1) HIGH LUMEN LED 3000K  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1013.0 lumens  
Efficiency: N/A  
Efficacy: 72.4 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

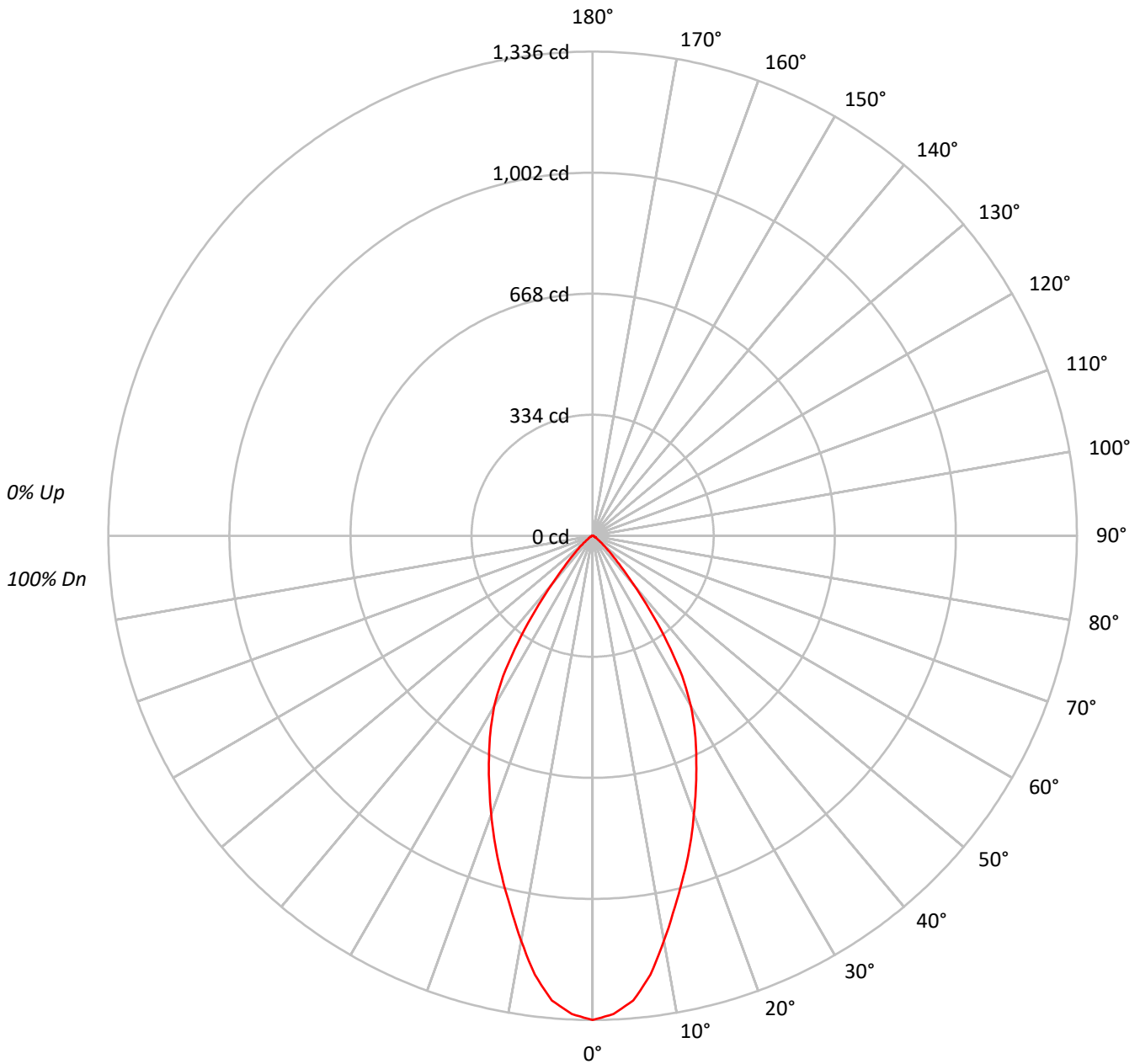
Input Watts (W): 14  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	87168
5°	84318
10°	75171
15°	65523
20°	56743
25°	48684
30°	40868
35°	28680
40°	14930
45°	7104
50°	3725
55°	2025
60°	1396
65°	911
70°	687
75°	605
80°	451
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	117.9	11.6
10°-20°	271.1	26.8
20°-30°	310.2	30.6
30°-40°	221.0	21.8
40°-50°	66.8	6.6
50°-60°	17.3	1.7
60°-70°	6.4	0.6
70°-80°	2.2	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°	699.1	69.0
0°-40°	920.1	90.8
0°-60°	1004.2	99.1
<b>0°-90°</b>	<b>1013.0</b>	<b>100.0</b>
90°-120°	0.0	0.0
90°-150°	0.0	0.0
<b>90°-180°</b>	<b>0.0</b>	<b>0.0</b>
0°-180°	1013.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1336	
5°	1288	118
15°	970	271
25°	676	310
35°	360	221
45°	77	67
55°	18	17
65°	6	6
75°	2	2
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1336.1
2.5°	1320.7
5°	1287.5
7.5°	1221.2
10°	1134.7
12.5°	1048.3
15°	970.1
17.5°	894.3
20°	817.3
22.5°	745.0
25°	676.3
27.5°	611.2
30°	542.5
32.5°	459.6
35°	360.1
37.5°	258.2
40°	175.3
42.5°	116.1
45°	77.0
47.5°	53.3
50°	36.7
52.5°	23.7
55°	17.8
57.5°	13.0
60°	10.7
62.5°	8.3
65°	5.9
67.5°	4.7
70°	3.6
72.5°	2.4
75°	2.4
77.5°	1.2
80°	1.2
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)