

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: P135401

Luminaire Tested: **LD6A10D010TE ERM6A10830 6LM1H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P135401  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23371)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD6A10D010TE ERM6A10830 6LM1H  
Description: PORTFOLIO 6 INCH 50 DEGREE CUTOFF RECESSED DOWNLIGHT  
MEDIUM 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: 1069.0 lumens  
Efficiency: N/A  
Efficacy: 76.4 lumens/watt  
Spacing Criteria (0/90/45): 0.92 / 0.92 / 0.9  
Luminous Opening: Circular (Dia: 0.46' x H: 0')  
CIE Type: Direct

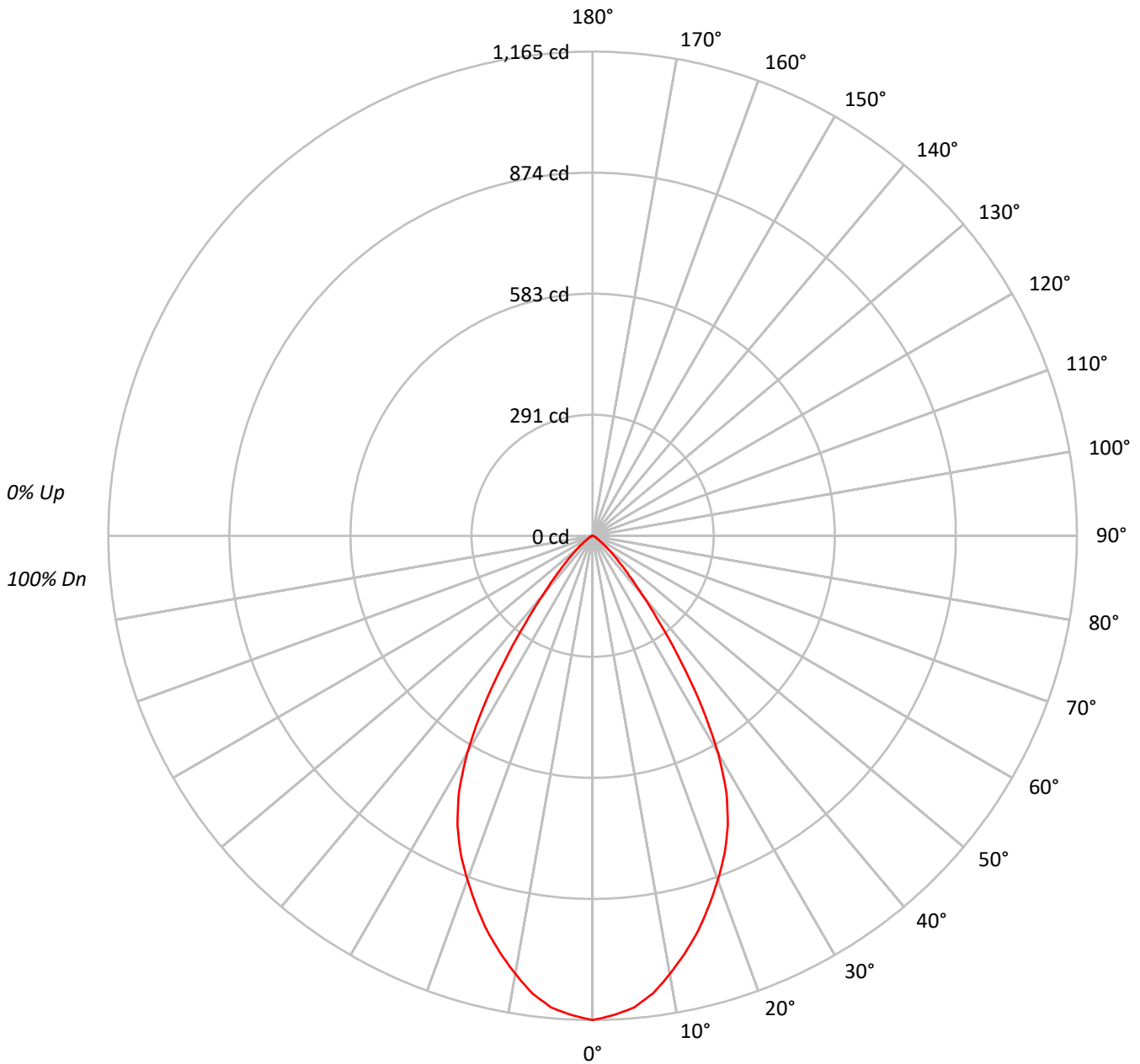
Input Watts (W): 14  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	102	101	101	99	98	97	96	95	93			
2	108	103	98	95	105	101	97	94	98	94	92	95	92	90	92	90	88	86			
3	102	95	90	86	100	94	89	85	91	87	84	89	86	83	87	84	81	80			
4	97	89	83	79	95	88	82	78	85	81	77	83	80	76	82	78	76	74			
5	91	83	77	72	90	82	76	72	80	75	72	78	74	71	77	73	70	69			
6	87	78	71	67	85	77	71	67	75	70	66	74	69	66	73	69	65	64			
7	82	73	67	62	81	72	66	62	71	66	62	70	65	61	68	64	61	60			
8	78	68	62	58	77	68	62	58	67	61	58	66	61	57	65	60	57	56			
9	74	64	58	54	73	64	58	54	63	58	54	62	57	54	61	57	54	52			
10	71	61	55	51	70	60	55	51	60	54	51	59	54	51	58	54	50	49			

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

	0°
0°	76025
5°	74606
10°	70917
15°	66380
20°	61152
25°	55385
30°	45456
35°	29556
40°	15849
45°	8534
50°	4689
55°	2298
60°	1396
65°	911
70°	687
75°	302
80°	451
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	106.6	10.0
10°-20°	274.9	25.7
20°-30°	347.8	32.5
30°-40°	233.8	21.9
40°-50°	76.8	7.2
50°-60°	20.7	1.9
60°-70°	6.4	0.6
70°-80°	1.9	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°	729.2	68.2
0°-40°	963.0	90.1
0°-60°	1060.6	99.2
0°-90°	1069.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1069.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1165	
5°	1139	107
15°	983	275
25°	769	348
35°	371	234
45°	92	77
55°	20	21
65°	6	6
75°	1	2
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1165.3
2.5°	1154.6
5°	1139.2
7.5°	1110.8
10°	1070.5
12.5°	1027.8
15°	982.8
17.5°	931.8
20°	880.8
22.5°	828.6
25°	769.4
27.5°	697.1
30°	603.4
32.5°	490.8
35°	371.1
37.5°	265.5
40°	186.1
42.5°	130.4
45°	92.5
47.5°	65.2
50°	46.2
52.5°	30.8
55°	20.2
57.5°	14.2
60°	10.7
62.5°	8.3
65°	5.9
67.5°	4.7
70°	3.6
72.5°	2.4
75°	1.2
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)