

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: P135283

Luminaire Tested: **LD6A10D010TE ERM6A10840 6LM1LI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P135283  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23398)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD6A10D010TE ERM6A10840 6LM1LI  
Description: PORTFOLIO 6 INCH 50 DEGREE CUTOFF RECESSED DOWNLIGHT  
MEDIUM DISTRIBUTION WITH SPECULAR CLEAR TRIM  
Light Source: (1) HIGH LUMEN LED 4000K  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1253.9 lumens  
Efficiency: N/A  
Efficacy: 89.6 lumens/watt  
Spacing Criteria (0/90/45): 0.82 / 0.82 / 0.8  
Luminous Opening: Circular (Dia: 0.46' x H: 0')  
CIE Type: Direct

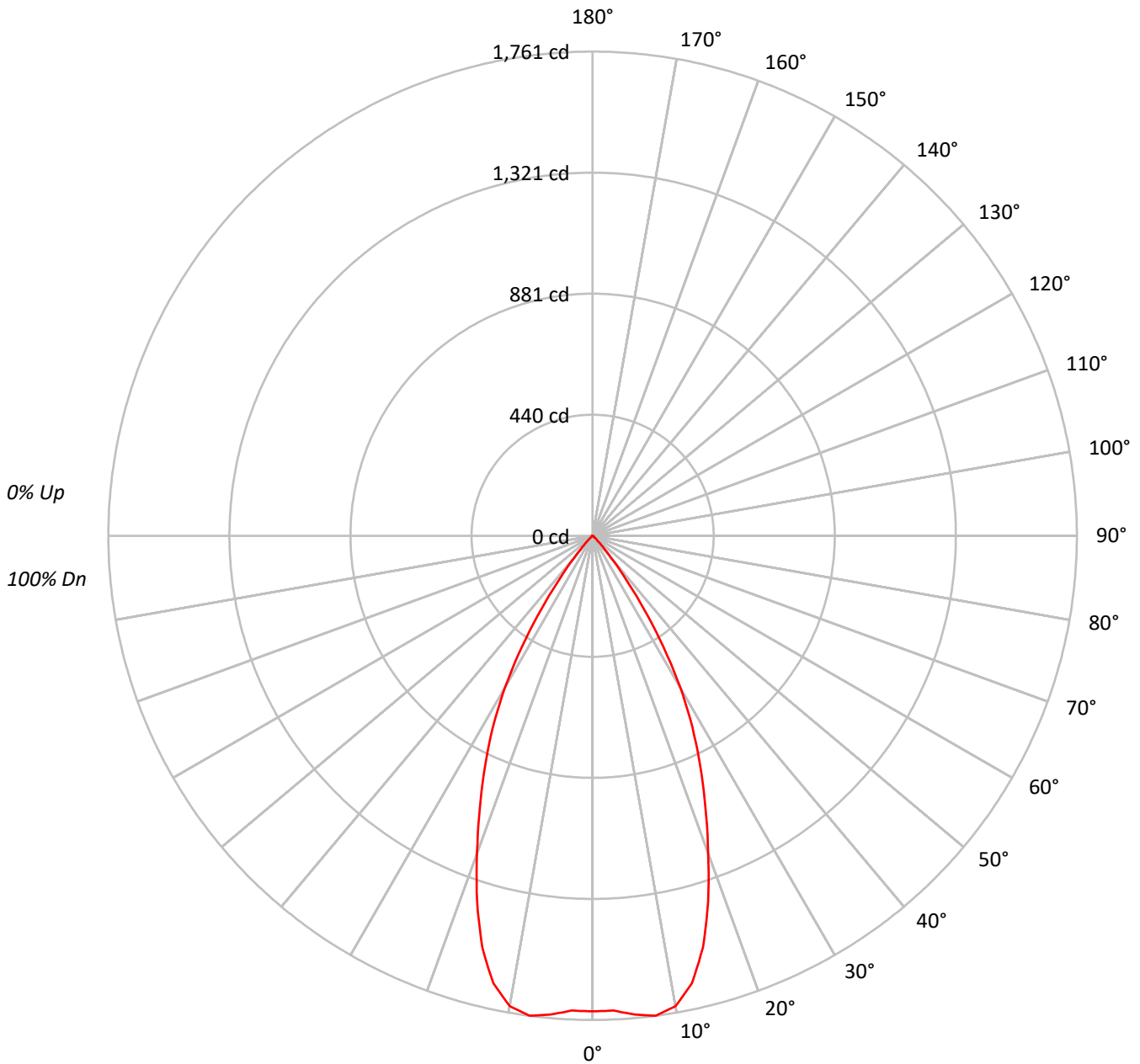
Input Watts (W): 14  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	114	111	109	107	112	109	107	105	105	104	102	102	100	99	98	97	96	94			
2	109	104	101	98	107	103	99	96	99	97	94	97	94	92	94	92	90	89			
3	104	98	94	90	102	97	93	89	94	91	88	92	89	86	90	87	85	84			
4	99	92	87	83	98	91	87	83	89	85	82	87	84	81	85	82	80	79			
5	95	87	82	78	93	86	81	77	84	80	77	83	79	76	81	78	75	74			
6	91	82	77	73	89	82	76	73	80	76	72	79	75	72	78	74	71	70			
7	87	78	72	69	85	77	72	68	76	71	68	75	71	68	74	70	67	66			
8	83	74	69	65	82	73	68	65	72	68	64	71	67	64	71	67	64	63			
9	79	70	65	61	78	70	65	61	69	64	61	68	64	61	67	63	61	59			
10	76	67	62	58	75	67	61	58	66	61	58	65	61	58	64	60	57	56			

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

	0°
0°	112821
5°	114470
10°	115065
15°	104690
20°	85306
25°	66658
30°	48033
35°	25661
40°	8934
45°	2417
50°	771
55°	387
60°	222
65°	123
70°	153
75°	202
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	166.8	13.3
10°-20°	424.5	33.9
20°-30°	422.0	33.7
30°-40°	207.8	16.6
40°-50°	27.9	2.2
50°-60°	3.3	0.3
60°-70°	1.1	0.1
70°-80°	0.5	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°	1013.3	80.8
0°-40°	1221.1	97.4
0°-60°	1252.3	99.9
0°-90°	1253.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1253.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1729	
5°	1748	167
15°	1550	425
25°	926	422
35°	322	208
45°	26	28
55°	3	3
65°	1	1
75°	1	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1729.3
2.5°	1728.4
5°	1747.9
7.5°	1760.6
10°	1736.9
12.5°	1666.7
15°	1550.0
17.5°	1397.0
20°	1228.7
22.5°	1070.6
25°	926.0
27.5°	785.6
30°	637.6
32.5°	478.6
35°	322.2
37.5°	193.6
40°	104.9
42.5°	54.1
45°	26.2
47.5°	12.7
50°	7.6
52.5°	4.2
55°	3.4
57.5°	2.5
60°	1.7
62.5°	1.7
65°	0.8
67.5°	0.8
70°	0.8
72.5°	0.8
75°	0.8
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)