

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: P407592

Luminaire Tested: **LE\_4B15D010 EC4B10208035 4LBCS3MMS**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-41-14  
Report Number: P407592  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35319)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LE\_4B15D010 EC4B10208035 4LBCS3MMS  
Description: PORTFOLIO 4 INCH CYLINDER  
SHALLOW DISTRIBUTION WITH CAST MATTE BLACK TRIM  
WATTAGE D010TR-14.39W DE010-14.29W D5LT-14.34W DMX-14.46W DL2-15.8W  
DL3-15.28W DLE-15.432W  
Light Source: HIGH LUMEN LED  
Ballast/Driver: -

**Summary**

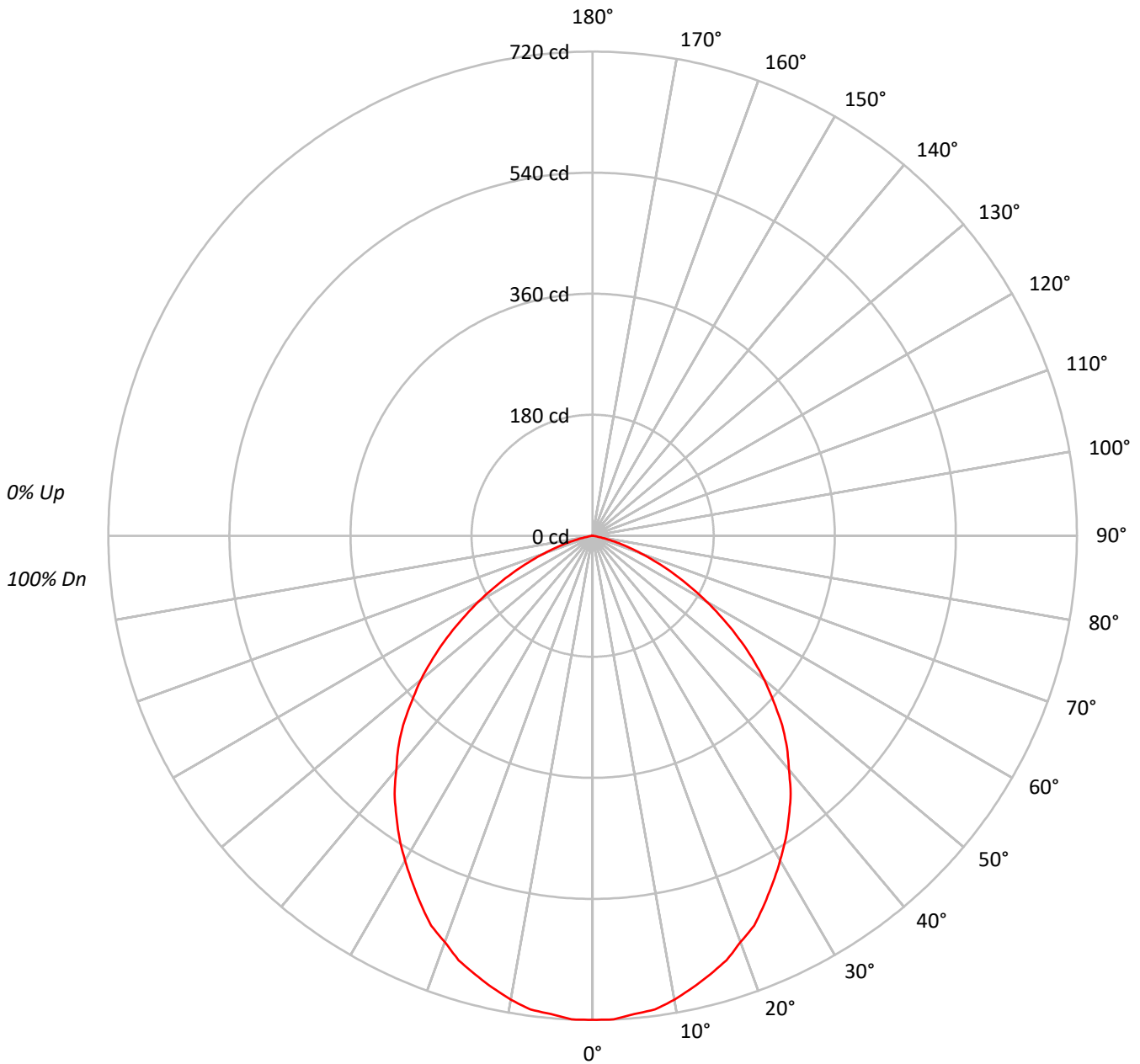
Lumens per Lamp: N/A  
Luminaire Lumens: 1567.3 lumens  
Efficiency: N/A  
Efficacy: 109.6 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.27  
Luminous Opening: Circular (Dia: 1.12' x H: 0')  
CIE Type: Direct

Input Watts (W): 14.3  
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				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				100
1	111	107	103	100	108	105	101	98	100	98	95	97	94	92	93	91	90	88				88
2	102	95	89	84	100	93	88	83	90	85	81	86	83	79	83	80	78	76				76
3	94	85	77	72	92	83	76	71	80	74	70	77	73	69	75	71	67	65				65
4	87	76	68	62	84	74	67	61	72	66	61	70	64	60	68	63	59	57				57
5	80	68	60	54	78	67	59	54	65	58	53	63	57	53	61	56	52	50				50
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44				44
7	69	56	48	42	67	56	48	42	54	47	42	53	46	42	51	46	41	40				40
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36				36
9	60	48	40	35	59	47	40	34	46	39	34	45	39	34	44	38	34	32				32
10	57	44	36	31	55	43	36	31	43	36	31	42	35	31	41	35	31	29				29

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

	0°
0°	7794
5°	7758
10°	7703
15°	7569
20°	7407
25°	7219
30°	6972
35°	6727
40°	6419
45°	6103
50°	5618
55°	4995
60°	4238
65°	3377
70°	2438
75°	1397
80°	374
85°	124



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	67.8	4.3
10°-20°	190.3	12.1
20°-30°	278.0	17.7
30°-40°	318.0	20.3
40°-50°	305.6	19.5
50°-60°	236.0	15.1
60°-70°	131.7	8.4
70°-80°	38.3	2.4
80°-90°	1.6	0.1
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°	536.2	34.2
0°-40°	854.2	54.5
0°-60°	1395.7	89.0
0°-90°	1567.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1567.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	720	
5°	714	68
15°	675	190
25°	604	278
35°	509	318
45°	398	306
55°	265	236
65°	132	132
75°	33	38
85°	1	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	719.8
2.5°	719.8
5°	713.7
7.5°	710.6
10°	700.5
12.5°	688.3
15°	675.2
17.5°	662.0
20°	642.8
22.5°	627.6
25°	604.2
27.5°	580.9
30°	557.6
32.5°	534.3
35°	508.9
37.5°	483.6
40°	454.1
42.5°	427.8
45°	398.5
47.5°	364.9
50°	333.5
52.5°	299.0
55°	264.6
57.5°	229.1
60°	195.7
62.5°	162.2
65°	131.8
67.5°	103.4
70°	77.0
72.5°	53.7
75°	33.4
77.5°	17.3
80°	6.0
82.5°	2.0
85°	1.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)