

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: P211851

Luminaire Tested: **LE\_4B30D010 EC4B30508027 4LBM1H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P211851  
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\_4B30D010 EC4B30508027 4LBM1H  
Description: PORTFOLIO 4 INCH CYLINDER  
MEDIUM DISTRIBUTION WITH SEMI-SPECULAR CLEAR TRIM  
WATTAGE D010TR-27.4W DE010-27.95W D5LT-27.65W DMX-27.73W DL2-29.56W  
DL3-29.67W DLE-29.73W  
Light Source: HIGH LUMEN LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2435.1 lumens  
Efficiency: N/A  
Efficacy: 87.0 lumens/watt  
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.93  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

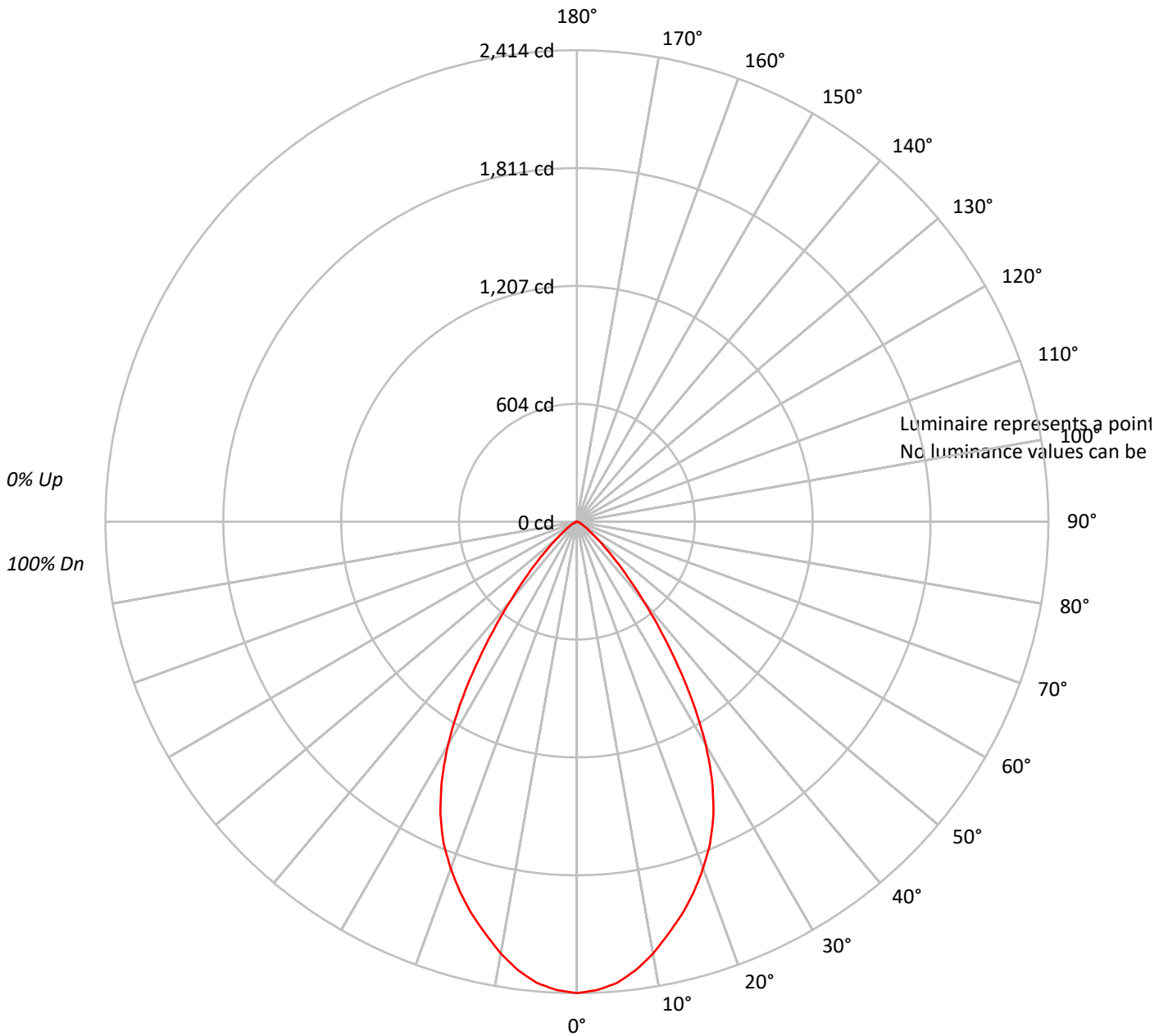
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P211851

CATALOG NUMBER: LE\_4B30D010 EC4B30508027 4LBM1H

### Luminous Intensity Polar Plot





TEST NUMBER: P211851

CATALOG NUMBER: LE\_4B30D010 EC4B30508027 4LBM1H

**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			100
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93			93
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85			85
3	101	94	89	85	99	93	88	84	90	86	83	88	84	82	86	83	80	79			79
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	73			73
5	90	82	75	71	89	81	75	70	79	74	70	77	73	69	75	72	69	67			67
6	86	76	70	65	84	75	69	65	74	68	64	72	68	64	71	67	64	62			62
7	81	71	65	60	80	70	64	60	69	64	60	68	63	59	67	62	59	58			58
8	77	67	60	56	75	66	60	56	65	59	56	64	59	55	63	58	55	54			54
9	73	63	56	52	72	62	56	52	61	56	52	60	55	52	59	55	52	50			50
10	69	59	53	49	68	59	53	49	58	52	49	57	52	48	56	52	48	47			47

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





TEST NUMBER: P211851

CATALOG NUMBER: LE\_4B30D010 EC4B30508027 4LBM1H

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	222.2	9.1
10°-20°	582.9	23.9
20°-30°	749.1	30.8
30°-40°	563.6	23.1
40°-50°	226.3	9.3
50°-60°	64.3	2.6
60°-70°	20.4	0.8
70°-80°	5.8	0.2
80°-90°	0.5	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°	1554.1	63.8
0°-40°	2117.7	87.0
0°-60°	2408.4	98.9
0°-90°	2435.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2435.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2414	
5°	2370	222
15°	2080	583
25°	1654	749
35°	904	564
45°	279	226
55°	66	64
65°	18	20
75°	4	6
85°	0	1
90°	0	



TEST NUMBER: P211851

CATALOG NUMBER: LE\_4B30D010 EC4B30508027 4LBM1H

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2414.5
2.5°	2399.9
5°	2370.5
7.5°	2315.4
10°	2245.5
12.5°	2161.0
15°	2080.1
17.5°	1988.2
20°	1889.1
22.5°	1782.5
25°	1653.8
27.5°	1499.4
30°	1319.4
32.5°	1117.2
35°	904.1
37.5°	705.6
40°	529.2
42.5°	389.5
45°	279.3
47.5°	191.1
50°	132.4
52.5°	91.9
55°	66.1
57.5°	47.8
60°	36.8
62.5°	25.8
65°	18.3
67.5°	14.7
70°	11.0
72.5°	7.3
75°	3.7
77.5°	3.7
80°	3.7
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093







— 0°-180°







(END OF REPORT)