

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: P212075

Luminaire Tested: **LE\_4B30D010 EC4B30509035 4LBW1LI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P212075  
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 EC4B30509035 4LBW1LI  
Description: PORTFOLIO 4 INCH CYLINDER  
WIDE DISTRIBUTION WITH 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: 2903.6 lumens  
Efficiency: N/A  
Efficacy: 103.7 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.18  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

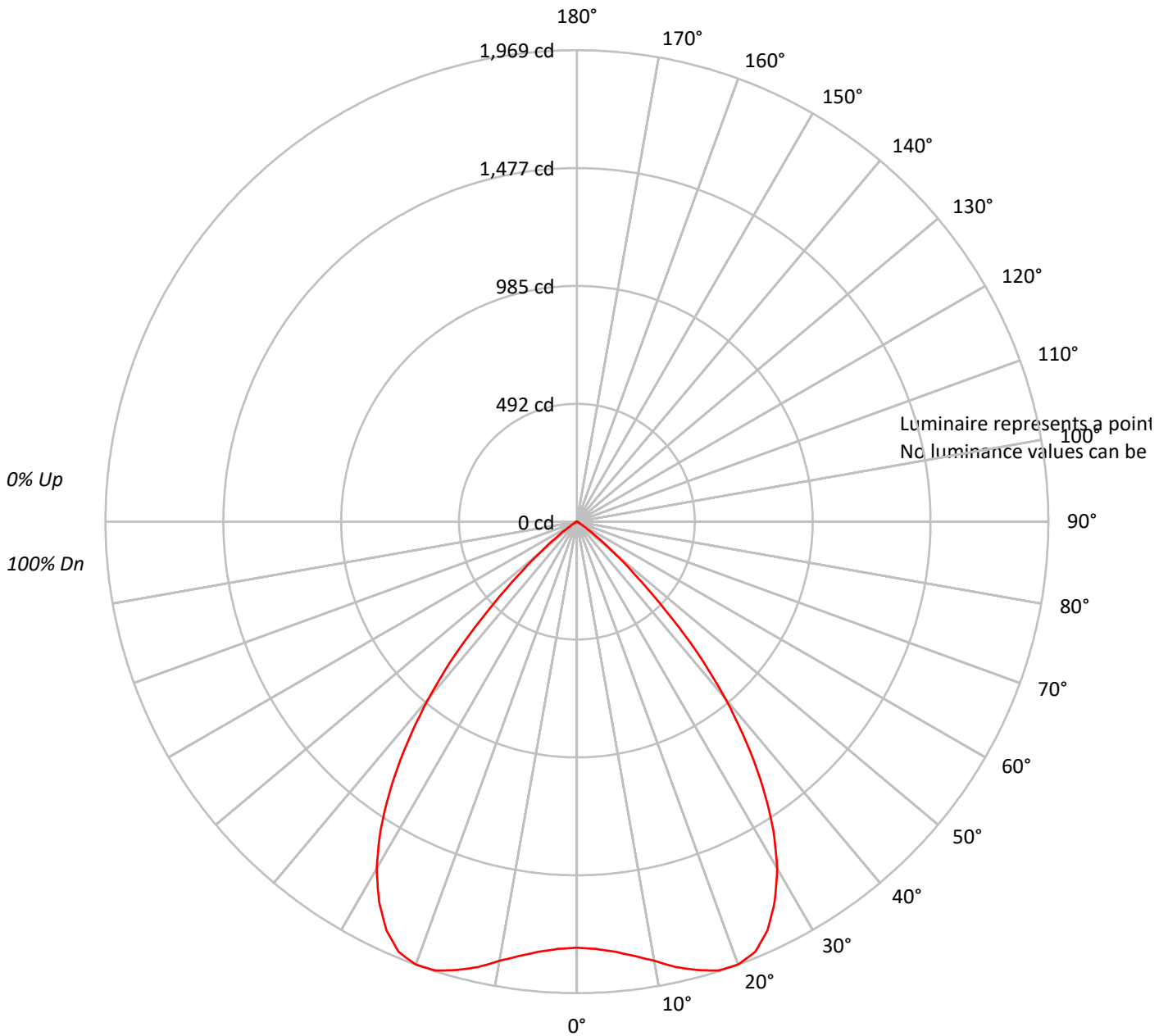
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P212075

CATALOG NUMBER: LE\_4B30D010 EC4B30509035 4LBW1LI

### Luminous Intensity Polar Plot





TEST NUMBER: P212075

CATALOG NUMBER: LE\_4B30D010 EC4B30509035 4LBW1LI

**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	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	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92											92																	
2	106	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84											84																	
3	100	93	87	83	98	92	86	82	89	85	81	86	83	80	84	81	78	77											77																	
4	94	86	79	75	92	84	79	74	82	77	73	80	76	72	78	75	72	70											70																	
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64											64																	
6	83	73	66	62	82	72	66	61	71	65	61	69	64	60	68	63	60	58											58																	
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	54											54																	
8	74	63	56	52	72	62	56	51	61	55	51	60	55	51	59	54	51	49											49																	
9	69	59	52	48	68	58	52	47	57	51	47	56	51	47	55	50	47	45											45																	
10	66	55	48	44	65	54	48	44	53	48	44	53	47	44	52	47	43	42											42																	

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





TEST NUMBER: P212075

CATALOG NUMBER: LE\_4B30D010 EC4B30509035 4LBW1LI

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	174.0	6.0
10°-20°	549.0	18.9
20°-30°	856.5	29.5
30°-40°	833.4	28.7
40°-50°	416.3	14.3
50°-60°	64.4	2.2
60°-70°	7.8	0.3
70°-80°	2.2	0.1
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°	1579.5	54.4
0°-40°	2412.9	83.1
0°-60°	2893.6	99.7
0°-90°	2903.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2903.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1779	
5°	1802	174
15°	1939	549
25°	1882	857
35°	1354	833
45°	522	416
55°	53	64
65°	7	8
75°	3	2
85°	0	0
90°	0	



TEST NUMBER: P212075

CATALOG NUMBER: LE\_4B30D010 EC4B30509035 4LBW1LI

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1779.1
2.5°	1785.7
5°	1802.4
7.5°	1829.0
10°	1862.3
12.5°	1905.4
15°	1938.7
17.5°	1965.3
20°	1968.6
22.5°	1945.3
25°	1882.2
27.5°	1789.1
30°	1672.7
32.5°	1526.3
35°	1353.5
37.5°	1163.9
40°	964.4
42.5°	751.6
45°	522.1
47.5°	335.8
50°	202.9
52.5°	109.7
55°	53.2
57.5°	23.3
60°	13.3
62.5°	10.0
65°	6.6
67.5°	6.6
70°	3.4
72.5°	3.4
75°	3.4
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093







— 0°-180°







(END OF REPORT)