

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: P207989

Luminaire Tested: **LD4B30D010 EU4B30508030 4LBNMW1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P207989  
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: LD4B30D010 EU4B30508030 4LBNMW1  
Description: PORTFOLIO 4 INCH 50 DEGREE CUTOFF RECESSED DOWNLIGHT  
NARROW DISTRIBUTION WITH MATTE WHITE 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: 2081.9 lumens  
Efficiency: N/A  
Efficacy: 74.4 lumens/watt  
Spacing Criteria (0/90/45): 0.96 / 0.96 / 0.95  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

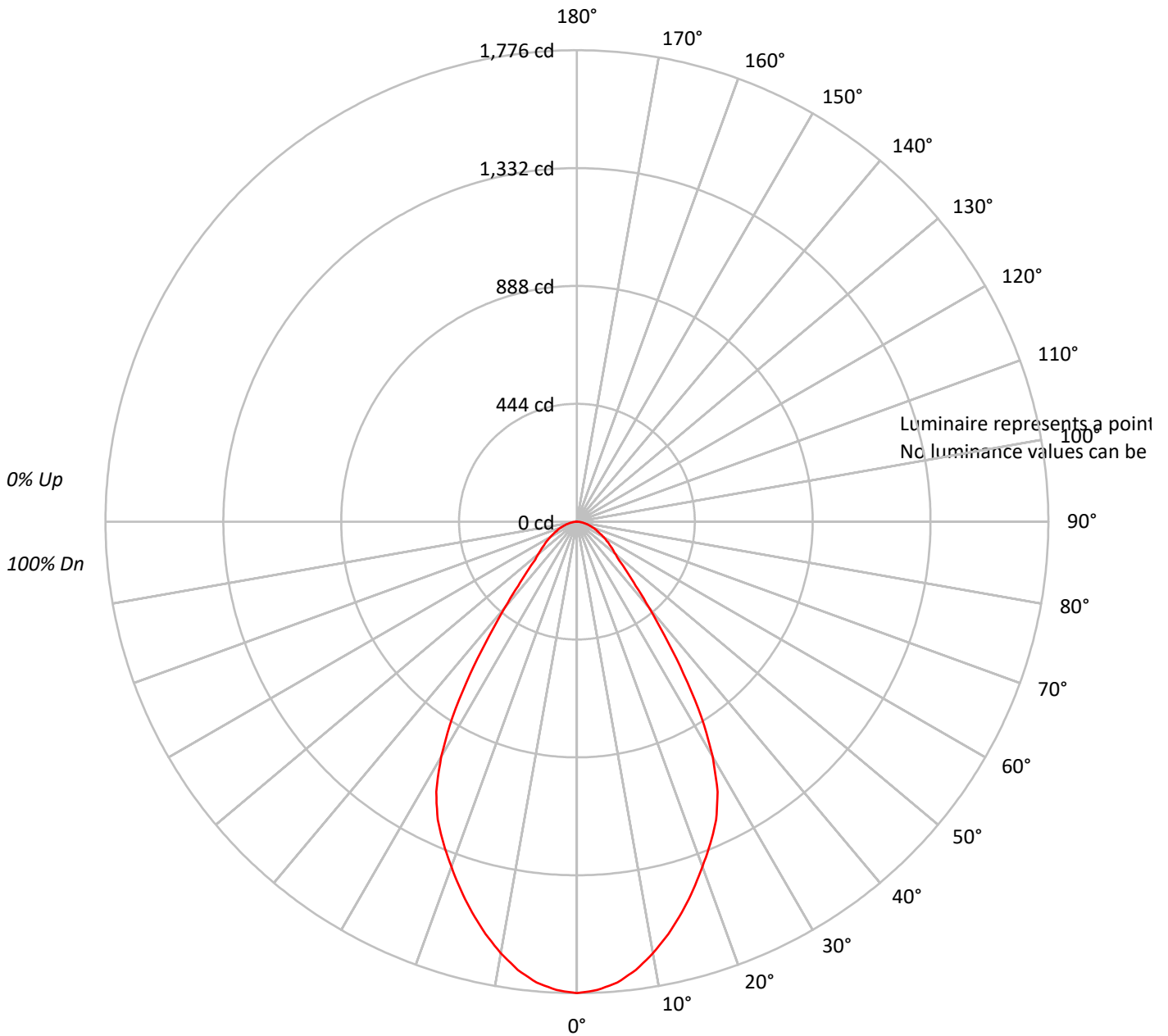
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P207989

CATALOG NUMBER: LD4B30D010 EU4B30508030 4LBNMW1

### Luminous Intensity Polar Plot





TEST NUMBER: P207989

CATALOG NUMBER: LD4B30D010 EU4B30508030 4LBNMW1

**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	112	109	105	103	109	106	104	101	102	100	98	98	97	95	95	94	92	90			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81			
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73			
4	92	83	76	71	90	82	76	71	80	74	70	78	73	69	76	72	68	67			
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61			
6	82	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	58	56			
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	62	57	53	52			
8	73	62	55	50	71	61	55	50	60	54	50	59	53	49	58	53	49	48			
9	69	58	51	46	68	57	51	46	56	50	46	55	50	46	54	49	46	44			
10	65	54	48	43	64	54	47	43	53	47	43	52	47	43	51	46	43	41			

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





TEST NUMBER: P207989

CATALOG NUMBER: LD4B30D010 EU4B30508030 4LBNMW1

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	163.4	7.8
10°-20°	427.5	20.5
20°-30°	562.7	27.0
30°-40°	438.0	21.0
40°-50°	212.7	10.2
50°-60°	134.4	6.5
60°-70°	86.7	4.2
70°-80°	45.3	2.2
80°-90°	11.2	0.5
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°	1153.6	55.4
0°-40°	1591.6	76.4
0°-60°	1938.7	93.1
0°-90°	2081.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2081.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1776	
5°	1743	163
15°	1525	427
25°	1240	563
35°	701	438
45°	265	213
55°	149	134
65°	86	87
75°	43	45
85°	10	11
90°	0	



TEST NUMBER: P207989

CATALOG NUMBER: LD4B30D010 EU4B30508030 4LBNMW1

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1776.1
2.5°	1766.1
5°	1743.0
7.5°	1703.3
10°	1650.4
12.5°	1590.8
15°	1524.7
17.5°	1455.2
20°	1382.5
22.5°	1313.0
25°	1240.3
27.5°	1147.7
30°	1022.0
32.5°	873.1
35°	701.2
37.5°	542.4
40°	420.0
42.5°	327.4
45°	264.6
47.5°	215.0
50°	188.5
52.5°	168.7
55°	148.8
57.5°	132.3
60°	115.8
62.5°	99.2
65°	86.0
67.5°	76.1
70°	62.8
72.5°	52.9
75°	43.0
77.5°	33.1
80°	23.2
82.5°	16.5
85°	9.9
87.5°	3.3
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093







— 0°-180°







(END OF REPORT)