

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: P205719

Luminaire Tested: **LD4B30D010 EU4B30508040 4LBSH1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P205719  
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 EU4B30508040 4LBSH1  
Description: PORTFOLIO 4 INCH SHALLOW RECESSED DOWNLIGHT  
SHALLOW 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: 2968.7 lumens  
Efficiency: N/A  
Efficacy: 106.0 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.17  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

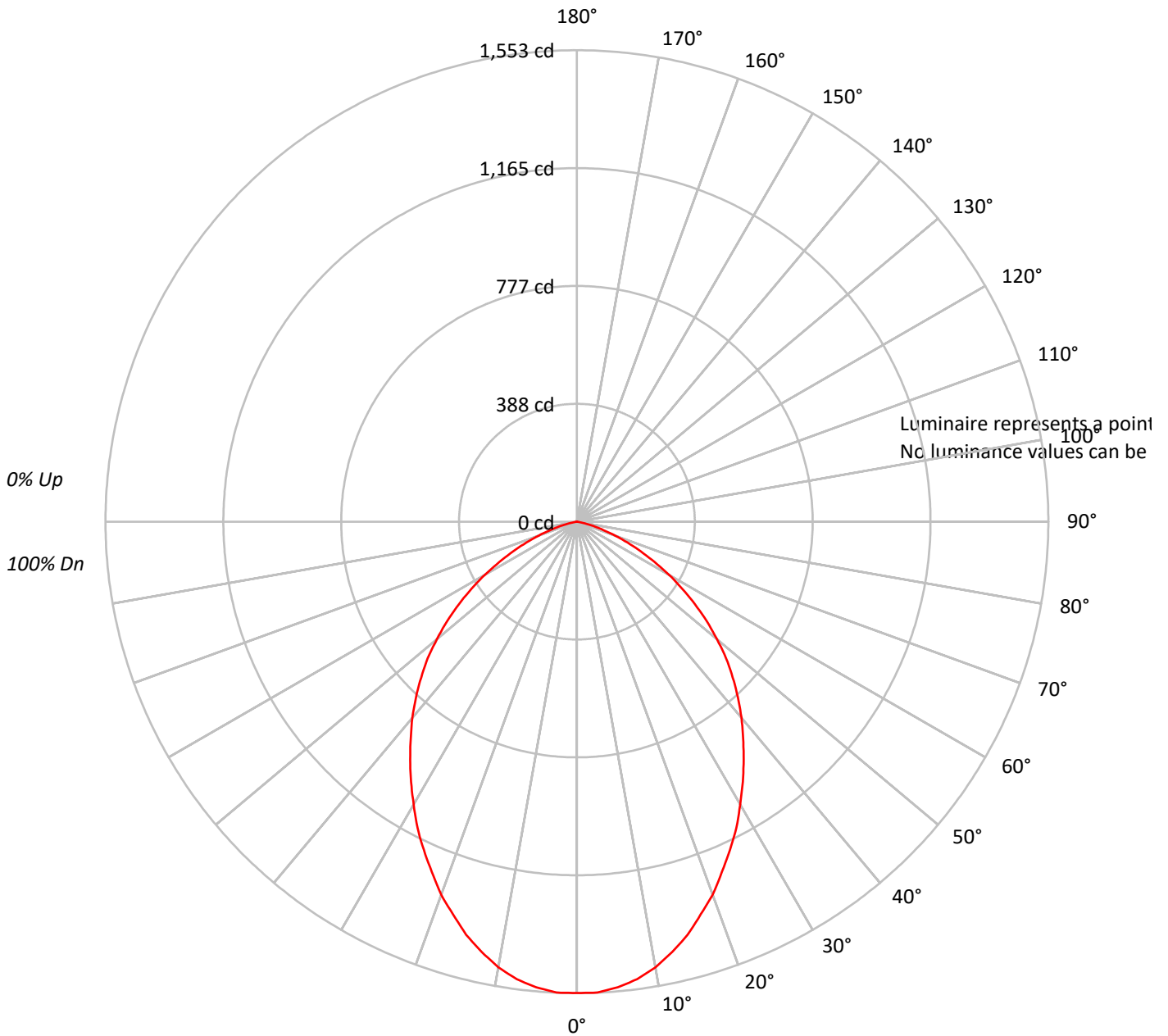
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P205719

CATALOG NUMBER: LD4B30D010 EU4B30508040 4LBSH1

### Luminous Intensity Polar Plot





TEST NUMBER: P205719

CATALOG NUMBER: LD4B30D010 EU4B30508040 4LBSH1

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
RC	80									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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88																			
2	102	96	90	85	100	94	88	84	90	86	82	87	83	80	84	81	79	77																			
3	95	85	78	73	92	84	77	72	81	75	71	78	74	70	76	72	69	67																			
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	58																			
5	81	69	61	55	79	68	61	55	66	60	55	64	59	54	63	58	53	51																			
6	75	63	55	49	73	62	54	49	60	54	49	59	53	48	57	52	48	46																			
7	70	58	50	44	68	57	49	44	55	49	44	54	48	43	53	47	43	41																			
8	65	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	37																			
9	61	49	41	36	60	48	41	36	47	40	36	46	40	36	45	40	35	34																			
10	58	45	38	33	56	45	38	33	44	37	33	43	37	33	42	37	33	31																			

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





TEST NUMBER: P205719

CATALOG NUMBER: LD4B30D010 EU4B30508040 4LBSH1

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	145.4	4.9
10°-20°	395.3	13.3
20°-30°	549.0	18.5
30°-40°	599.0	20.2
40°-50°	558.8	18.8
50°-60°	424.2	14.3
60°-70°	232.2	7.8
70°-80°	63.9	2.2
80°-90°	0.9	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°	1089.7	36.7
0°-40°	1688.7	56.9
0°-60°	2671.7	90.0
0°-90°	2968.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2968.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1553	
5°	1540	145
15°	1409	395
25°	1193	549
35°	958	599
45°	726	559
55°	474	424
65°	232	232
75°	56	64
85°	0	1
90°	0	



TEST NUMBER: P205719

CATALOG NUMBER: LD4B30D010 EU4B30508040 4LBSH1

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1552.6
2.5°	1552.6
5°	1539.5
7.5°	1519.9
10°	1490.5
12.5°	1451.3
15°	1408.8
17.5°	1356.5
20°	1307.5
22.5°	1248.6
25°	1193.1
27.5°	1137.5
30°	1075.4
32.5°	1016.6
35°	957.7
37.5°	898.9
40°	843.3
42.5°	784.5
45°	725.6
47.5°	666.8
50°	601.4
52.5°	539.3
55°	474.0
57.5°	411.9
60°	349.7
62.5°	287.6
65°	232.1
67.5°	179.8
70°	134.0
72.5°	91.5
75°	55.6
77.5°	26.1
80°	6.5
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093







— 0°-180°







(END OF REPORT)