

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: P207785

Luminaire Tested: **LD4B30D010 EU4B30508040 4LBNGPH1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P207785  
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 4LBNGPH1  
Description: PORTFOLIO 4 INCH 50 DEGREE CUTOFF RECESSED DOWNLIGHT  
NARROW DISTRIBUTION WITH GRAPHITE HAZE 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: 1416.0 lumens  
Efficiency: N/A  
Efficacy: 50.6 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.88  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

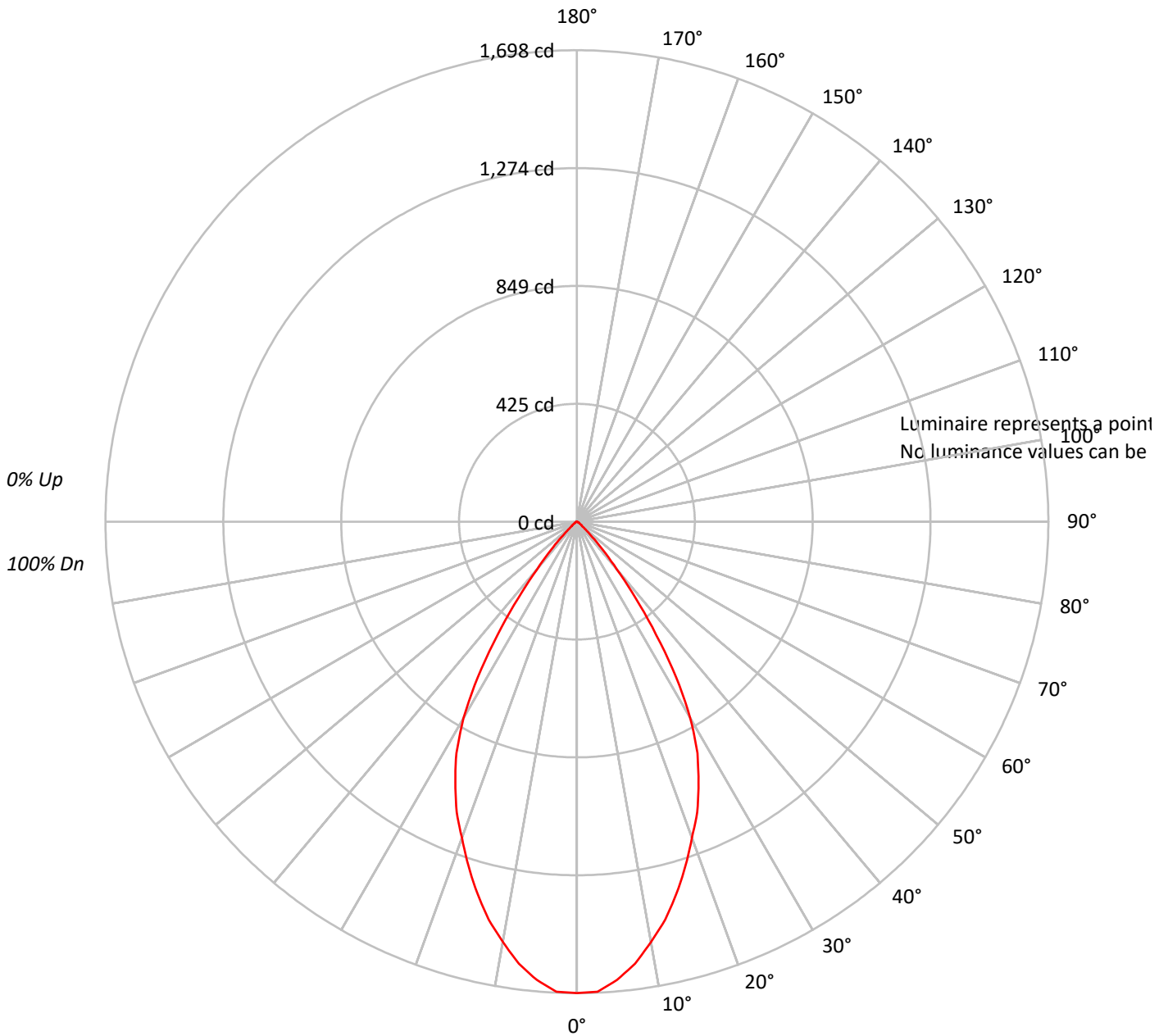
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P207785

CATALOG NUMBER: LD4B30D010 EU4B30508040 4LBNGPH1

### Luminous Intensity Polar Plot





TEST NUMBER: P207785

CATALOG NUMBER: LD4B30D010 EU4B30508040 4LBNGPH1

**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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	114	111	108	106	111	109	106	104	105	103	101	101	100	98	97	96	95	94		
2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	93	91	89	87		
3	103	96	91	87	101	95	90	87	92	88	85	90	87	84	88	85	83	81		
4	97	90	84	80	96	89	84	80	87	82	79	85	81	78	83	80	77	76		
5	93	84	78	74	91	83	78	74	82	77	73	80	76	73	78	75	72	70		
6	88	79	73	69	86	78	73	69	77	72	68	75	71	68	74	70	67	66		
7	84	74	68	64	82	74	68	64	72	67	64	71	67	63	70	66	63	62		
8	80	70	64	60	78	70	64	60	68	63	60	67	63	59	66	62	59	58		
9	76	66	60	56	75	66	60	56	65	60	56	64	59	56	63	59	56	54		
10	72	63	57	53	71	62	57	53	61	56	53	61	56	53	60	56	52	51		

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





TEST NUMBER: P207785

CATALOG NUMBER: LD4B30D010 EU4B30508040 4LBNGPH1

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	154.4	10.9
10°-20°	387.0	27.3
20°-30°	471.6	33.3
30°-40°	311.2	22.0
40°-50°	71.6	5.1
50°-60°	13.7	1.0
60°-70°	5.1	0.4
70°-80°	1.3	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°	1013.0	71.5
0°-40°	1324.2	93.5
0°-60°	1409.6	99.5
0°-90°	1416.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1416.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1698	
5°	1657	154
15°	1386	387
25°	1036	472
35°	497	311
45°	79	72
55°	14	14
65°	3	5
75°	0	1
85°	0	0
90°	0	



TEST NUMBER: P207785

CATALOG NUMBER: LD4B30D010 EU4B30508040 4LBNGPH1

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1698.1
2.5°	1694.6
5°	1656.9
7.5°	1605.4
10°	1536.8
12.5°	1468.2
15°	1385.9
17.5°	1300.1
20°	1210.9
22.5°	1132.0
25°	1036.0
27.5°	939.9
30°	816.4
32.5°	665.5
35°	497.4
37.5°	346.5
40°	223.0
42.5°	137.2
45°	78.9
47.5°	41.2
50°	24.0
52.5°	20.6
55°	13.7
57.5°	10.3
60°	10.3
62.5°	6.9
65°	3.4
67.5°	3.4
70°	3.4
72.5°	3.4
75°	0.0
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)