

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: P208001

Luminaire Tested: **LD4B40D010 EU4B30508027 4LBNMW1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P208001  
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: LD4B40D010 EU4B30508027 4LBNMW1  
Description: PORTFOLIO 4 INCH 50 DEGREE CUTOFF RECESSED DOWNLIGHT  
NARROW DISTRIBUTION WITH MATTE WHITE TRIM  
WATTAGE D010TR-43.02W DE010-42.54W D5LT-42.539W DMX-41.87W DL2-41.57W  
DL3-44.71W DLE-39.33W  
Light Source: HIGH LUMEN LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2789.5 lumens  
Efficiency: N/A  
Efficacy: 66.7 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

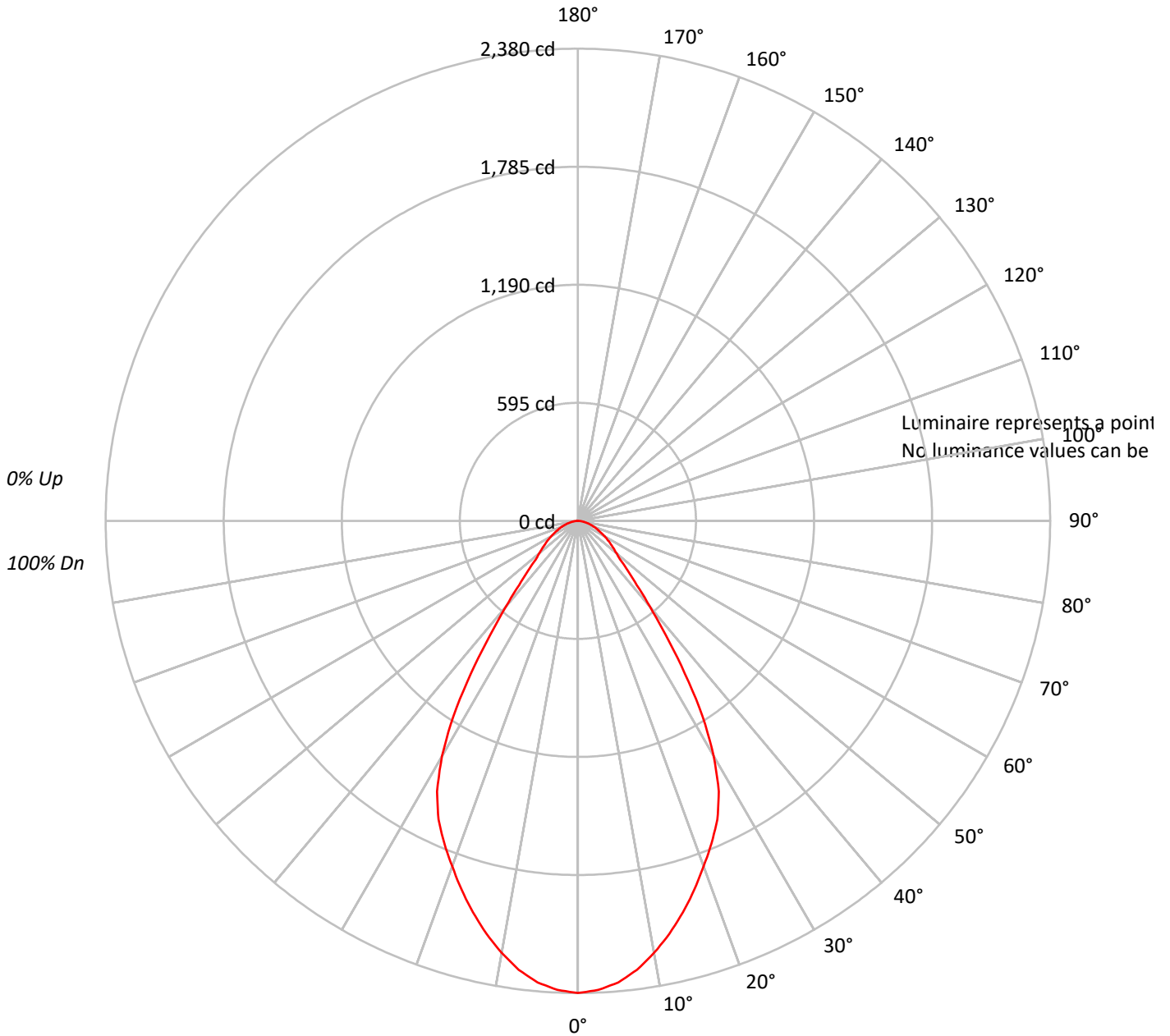
Input Watts (W): 41.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P208001

CATALOG NUMBER: LD4B40D010 EU4B30508027 4LBNMW1

### Luminous Intensity Polar Plot





TEST NUMBER: P208001

CATALOG NUMBER: LD4B40D010 EU4B30508027 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
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: P208001

CATALOG NUMBER: LD4B40D010 EU4B30508027 4LBNMW1

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	218.9	7.8
10°-20°	572.8	20.5
20°-30°	753.9	27.0
30°-40°	586.9	21.0
40°-50°	285.0	10.2
50°-60°	180.1	6.5
60°-70°	116.1	4.2
70°-80°	60.7	2.2
80°-90°	15.1	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°	1545.6	55.4
0°-40°	2132.5	76.4
0°-60°	2597.6	93.1
0°-90°	2789.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2789.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2380	
5°	2335	219
15°	2043	573
25°	1662	754
35°	940	587
45°	354	285
55°	199	180
65°	115	116
75°	58	61
85°	13	15
90°	0	



TEST NUMBER: P208001

CATALOG NUMBER: LD4B40D010 EU4B30508027 4LBNMW1

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2379.7
2.5°	2366.4
5°	2335.4
7.5°	2282.2
10°	2211.3
12.5°	2131.5
15°	2042.9
17.5°	1949.9
20°	1852.4
22.5°	1759.3
25°	1661.8
27.5°	1537.7
30°	1369.3
32.5°	1169.9
35°	939.5
37.5°	726.8
40°	562.8
42.5°	438.7
45°	354.5
47.5°	288.0
50°	252.6
52.5°	226.0
55°	199.4
57.5°	177.3
60°	155.1
62.5°	132.9
65°	115.2
67.5°	101.9
70°	84.2
72.5°	70.9
75°	57.6
77.5°	44.3
80°	31.0
82.5°	22.2
85°	13.3
87.5°	4.4
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093







— 0°-180°







(END OF REPORT)