

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: P208109

Luminaire Tested: **LD4B40D010 EU4B30509030 4LBWLI1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P208109  
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 EU4B30509030 4LBWLI1  
Description: PORTFOLIO 4 INCH 60 DEGREE CUTOFF RECESSED DOWNLIGHT  
WIDE DISTRIBUTION WITH SPECULAR CLEAR 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: 3456.5 lumens  
Efficiency: N/A  
Efficacy: 82.7 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

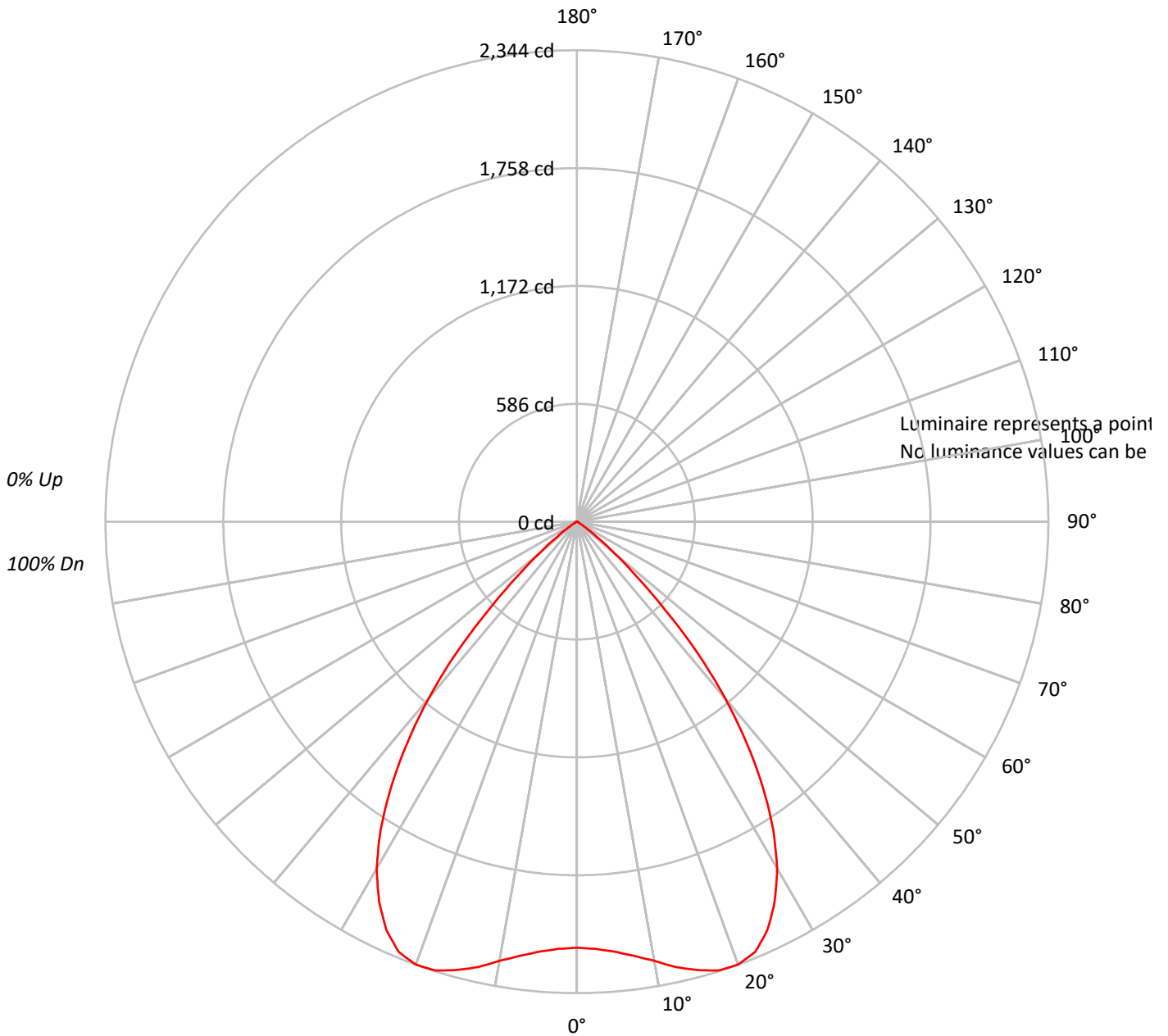
Input Watts (W): 41.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P208109

CATALOG NUMBER: LD4B40D010 EU4B30509030 4LBWLI1

### Luminous Intensity Polar Plot





TEST NUMBER: P208109

CATALOG NUMBER: LD4B40D010 EU4B30509030 4LBWLI1

**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	100	100	100
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92	92	92	92
2	106	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84	84	84	84
3	100	93	87	83	98	92	86	82	89	85	81	86	83	80	84	81	78	77	77	77	77
4	94	86	79	75	92	84	79	74	82	77	73	80	76	72	78	75	72	70	70	70	70
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64	64	64	64
6	83	73	66	62	82	72	66	61	71	65	61	69	64	60	68	63	60	58	58	58	58
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	54	54	54	54
8	74	63	56	52	72	62	56	51	61	55	51	60	55	51	59	54	51	49	49	49	49
9	69	59	52	48	68	58	52	47	57	51	47	56	51	47	55	50	47	45	45	45	45
10	66	55	48	44	65	54	48	44	53	48	44	53	47	44	52	47	43	42	42	42	42

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





TEST NUMBER: P208109

CATALOG NUMBER: LD4B40D010 EU4B30509030 4LBWLI1

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	207.1	6.0
10°-20°	653.6	18.9
20°-30°	1019.6	29.5
30°-40°	992.1	28.7
40°-50°	495.5	14.3
50°-60°	76.7	2.2
60°-70°	9.3	0.3
70°-80°	2.6	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°	1880.4	54.4
0°-40°	2872.4	83.1
0°-60°	3444.6	99.7
0°-90°	3456.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3456.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2118	
5°	2146	207
15°	2308	654
25°	2241	1020
35°	1611	992
45°	622	496
55°	63	77
65°	8	9
75°	4	3
85°	0	0
90°	0	



TEST NUMBER: P208109

CATALOG NUMBER: LD4B40D010 EU4B30509030 4LBWLI1

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2117.9
2.5°	2125.8
5°	2145.6
7.5°	2177.3
10°	2216.9
12.5°	2268.3
15°	2307.9
17.5°	2339.6
20°	2343.5
22.5°	2315.8
25°	2240.6
27.5°	2129.8
30°	1991.2
32.5°	1817.0
35°	1611.2
37.5°	1385.5
40°	1148.0
42.5°	894.7
45°	621.5
47.5°	399.8
50°	241.5
52.5°	130.6
55°	63.3
57.5°	27.7
60°	15.8
62.5°	11.9
65°	7.9
67.5°	7.9
70°	4.0
72.5°	4.0
75°	4.0
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)