

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: P208009

Luminaire Tested: **LD4B40D010 EU4B30509035 4LBNMW1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P208009  
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 EU4B30509035 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: 2526.1 lumens  
Efficiency: N/A  
Efficacy: 60.4 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

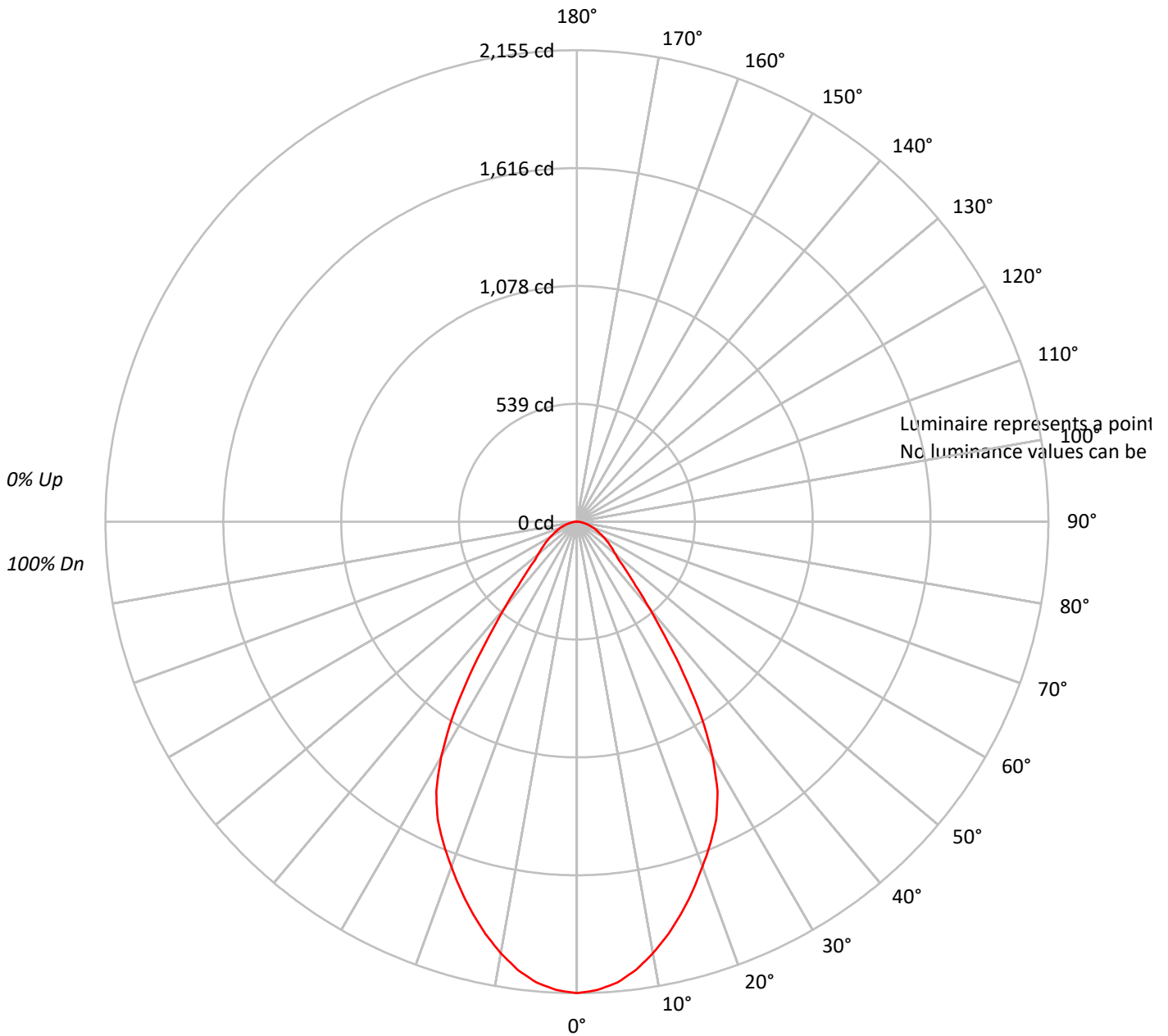
Input Watts (W): 41.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20				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
1	112	109	105	103	109	106	104	101	102	100	98	98	97	95	95	94	92	90				90
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81				81
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73				73
4	92	83	76	71	90	82	76	71	80	74	70	78	73	69	76	72	68	67				67
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61				61
6	82	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	58	56				56
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	62	57	53	52				52
8	73	62	55	50	71	61	55	50	60	54	50	59	53	49	58	53	49	48				48
9	69	58	51	46	68	57	51	46	56	50	46	55	50	46	54	49	46	44				44
10	65	54	48	43	64	54	47	43	53	47	43	52	47	43	51	46	43	41				41

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





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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	198.3	7.8
10°-20°	518.7	20.5
20°-30°	682.7	27.0
30°-40°	531.4	21.0
40°-50°	258.1	10.2
50°-60°	163.1	6.5
60°-70°	105.2	4.2
70°-80°	55.0	2.2
80°-90°	13.6	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°	1399.7	55.4
0°-40°	1931.1	76.4
0°-60°	2352.3	93.1
0°-90°	2526.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2526.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2155	
5°	2115	198
15°	1850	519
25°	1505	683
35°	851	531
45°	321	258
55°	181	163
65°	104	105
75°	52	55
85°	12	14
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2155.0
2.5°	2143.0
5°	2114.9
7.5°	2066.7
10°	2002.5
12.5°	1930.3
15°	1850.0
17.5°	1765.7
20°	1677.5
22.5°	1593.2
25°	1504.9
27.5°	1392.5
30°	1240.0
32.5°	1059.4
35°	850.8
37.5°	658.1
40°	509.7
42.5°	397.3
45°	321.0
47.5°	260.8
50°	228.7
52.5°	204.7
55°	180.6
57.5°	160.5
60°	140.5
62.5°	120.4
65°	104.3
67.5°	92.3
70°	76.2
72.5°	64.2
75°	52.2
77.5°	40.1
80°	28.1
82.5°	20.1
85°	12.0
87.5°	4.0
90°	0.0



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— 0°-180°







(END OF REPORT)