

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: P274298

Luminaire Tested: **LD4B10DE010W2N2050 EU4B1020W2N902050 4LBS0LI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P274298  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35292)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD4B10DE010W2N2050 EU4B1020W2N902050 4LBS0LI  
Description: PORTFOLIO 4" W2N RN DOWNLIGHT, SHALLOW WITH SPECULAR FINISH  
Light Source: W2N 2000K-5000K CCT TUNING RANGE  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 837.6 lumens  
Efficiency: N/A  
Efficacy: 59.8 lumens/watt  
Spacing Criteria (0/90/45): 0.91 / 0.91 / 1  
Luminous Opening: Circular (Dia: 0.35' x H: 0')  
CIE Type: Direct

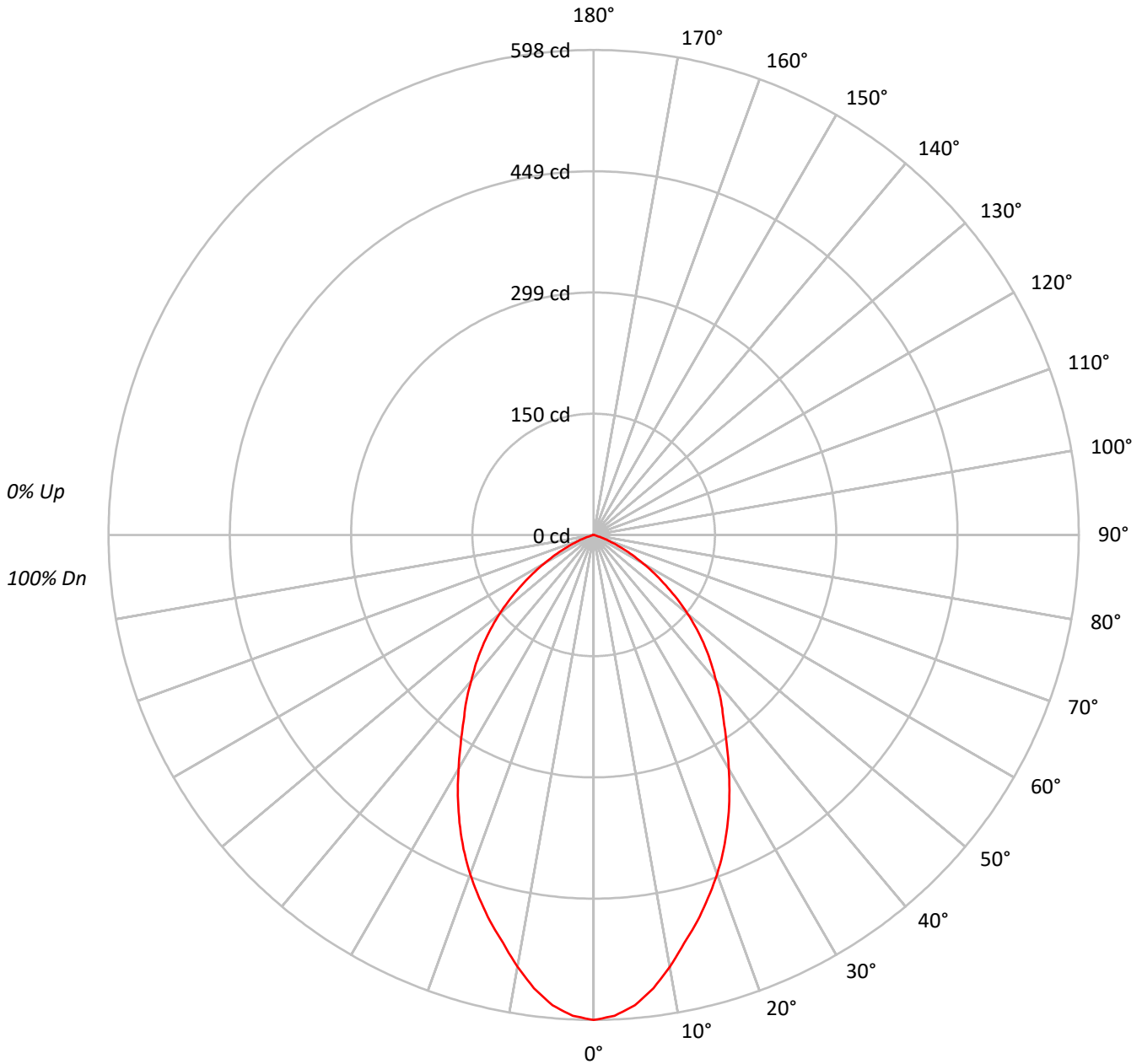
Input Watts (W): 14  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20				20				20				20				20				
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			
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90			
2	104	98	93	88	102	96	91	87	93	89	85	90	86	84	87	84	82	80			
3	97	89	82	77	95	87	81	77	84	79	75	82	78	74	79	76	73	71			
4	90	81	73	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63			
5	84	73	66	61	82	72	65	60	70	64	60	69	63	59	67	62	59	57			
6	79	67	60	54	77	66	59	54	65	58	54	63	58	53	62	57	53	51			
7	74	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46			
8	69	57	50	45	68	57	50	45	55	49	45	54	49	44	53	48	44	42			
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39			
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	36			

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

	0°
0°	65349
5°	63866
10°	59978
15°	55800
20°	51753
25°	47174
30°	42000
35°	37227
40°	33461
45°	29946
50°	25684
55°	20668
60°	15406
65°	9824
70°	4728
75°	802
80°	566
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	54.2	6.5
10°-20°	138.3	16.5
20°-30°	179.2	21.4
30°-40°	175.6	21.0
40°-50°	148.8	17.8
50°-60°	97.6	11.6
60°-70°	39.2	4.7
70°-80°	4.5	0.5
80°-90°	0.1	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°	371.7	44.4
0°-40°	547.4	65.3
0°-60°	793.8	94.8
0°-90°	837.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	837.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	598	
5°	582	54
15°	493	138
25°	391	179
35°	279	176
45°	194	149
55°	108	98
65°	38	39
75°	2	4
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	598.1
2.5°	593.4
5°	582.3
7.5°	563.7
10°	540.6
12.5°	515.5
15°	493.3
17.5°	469.2
20°	445.1
22.5°	419.1
25°	391.3
27.5°	362.5
30°	332.9
32.5°	305.1
35°	279.1
37.5°	257.8
40°	234.6
42.5°	214.2
45°	193.8
47.5°	172.5
50°	151.1
52.5°	129.8
55°	108.5
57.5°	89.0
60°	70.5
62.5°	53.8
65°	38.0
67.5°	25.0
70°	14.8
72.5°	6.5
75°	1.9
77.5°	0.9
80°	0.9
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)