

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: P274304

Luminaire Tested: **LD4B10DE010W2N2050 EU4B1020W2N902050 4LBS0H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P274304  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35136)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD4B10DE010W2N2050 EU4B1020W2N902050 4LBS0H  
Description: PORTFOLIO 4" W2N RN DOWNLIGHT, SHALLOW WITH HAZE FINISH  
Light Source: W2N 2000K-5000K CCT TUNING RANGE  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 812.2 lumens  
Efficiency: N/A  
Efficacy: 58.0 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.17  
Luminous Opening: Circular (Dia: 0.38' x H: 0')  
CIE Type: Direct

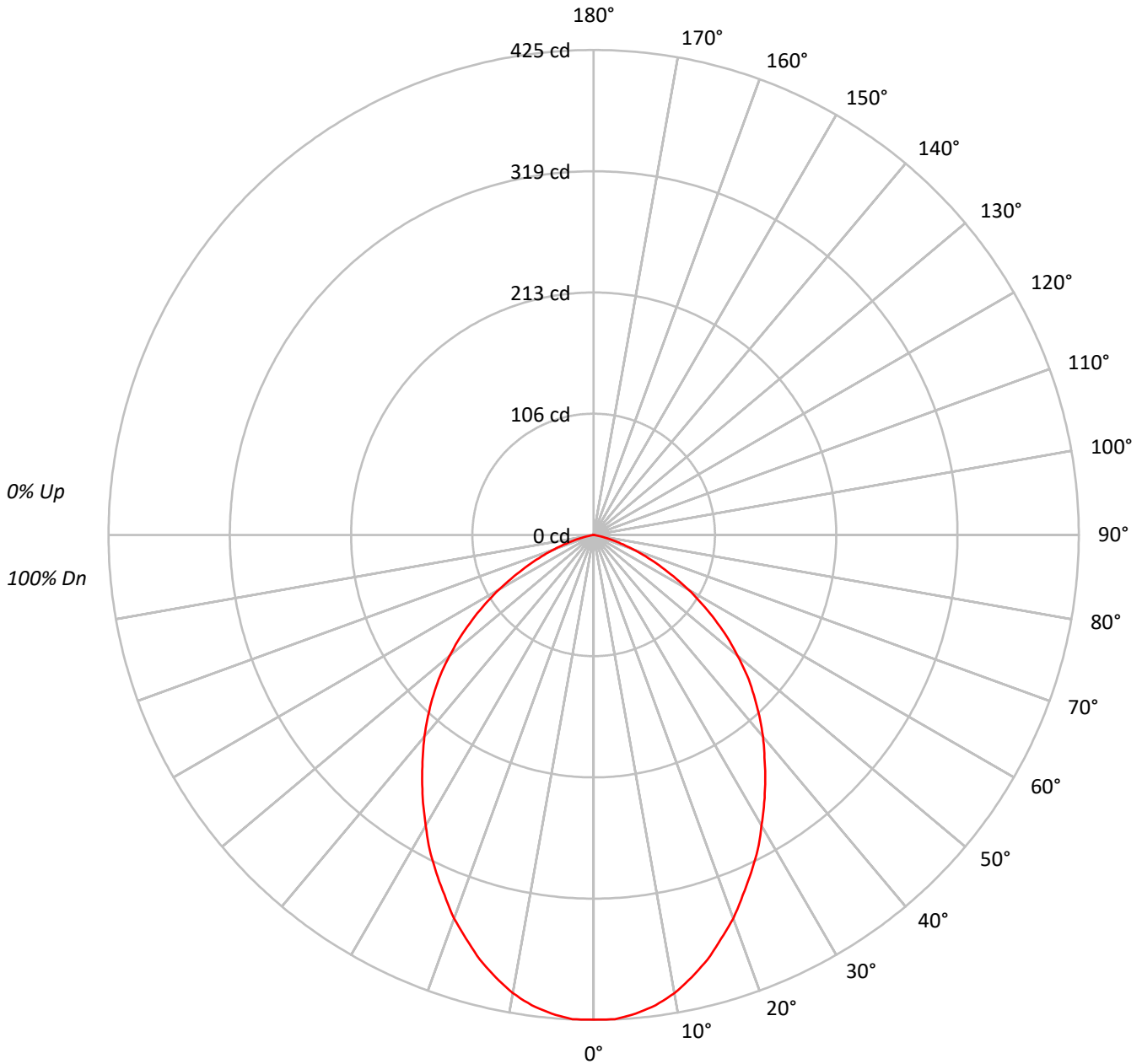
Input Watts (W): 14  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88			
2	102	96	90	85	100	94	88	84	90	86	82	87	83	80	84	81	79	77			
3	95	85	78	73	92	84	77	72	81	75	71	78	74	70	76	72	69	67			
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	58			
5	81	69	61	55	79	68	61	55	66	60	55	64	59	54	63	58	53	51			
6	75	63	55	49	73	62	54	49	60	54	49	59	53	48	57	52	48	46			
7	70	58	50	44	68	57	49	44	55	49	44	54	48	43	53	47	43	41			
8	65	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	37			
9	61	49	41	36	60	48	41	36	47	40	36	46	40	36	45	40	35	34			
10	58	45	38	33	56	45	38	33	44	37	33	43	37	33	42	37	33	31			

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

	0°
0°	41400
5°	41206
10°	40357
15°	38885
20°	37098
25°	35099
30°	33108
35°	31171
40°	29350
45°	27359
50°	24941
55°	22038
60°	18653
65°	14643
70°	10458
75°	5724
80°	1010
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	39.8	4.9
10°-20°	108.1	13.3
20°-30°	150.2	18.5
30°-40°	163.9	20.2
40°-50°	152.9	18.8
50°-60°	116.1	14.3
60°-70°	63.6	7.8
70°-80°	17.5	2.2
80°-90°	0.2	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°	298.1	36.7
0°-40°	462.0	56.9
0°-60°	730.9	90.0
0°-90°	812.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	812.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	425	
5°	421	40
15°	385	108
25°	326	150
35°	262	164
45°	198	153
55°	130	116
65°	64	64
75°	15	17
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	424.8
2.5°	424.8
5°	421.2
7.5°	415.8
10°	407.8
12.5°	397.1
15°	385.4
17.5°	371.1
20°	357.7
22.5°	341.6
25°	326.4
27.5°	311.2
30°	294.2
32.5°	278.1
35°	262.0
37.5°	245.9
40°	230.7
42.5°	214.6
45°	198.5
47.5°	182.4
50°	164.5
52.5°	147.6
55°	129.7
57.5°	112.7
60°	95.7
62.5°	78.7
65°	63.5
67.5°	49.2
70°	36.7
72.5°	25.0
75°	15.2
77.5°	7.2
80°	1.8
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)