

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: P274276

Luminaire Tested: **LD4B20DE010W2N2050 EU4B1020W2N902050 4LBM0H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P274276  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35173)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD4B20DE010W2N2050 EU4B1020W2N902050 4LBM0H  
Description: PORTFOLIO 4" W2N RN DOWNLIGHT, MEDIUM DISTRIBUTION WITH HAZE FINISH  
Light Source: W2N 2000K-5000K CCT TUNING RANGE  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1146.0 lumens  
Efficiency: N/A  
Efficacy: 40.9 lumens/watt  
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.93  
Luminous Opening: Circular (Dia: 0.35' x H: 0')  
CIE Type: Direct

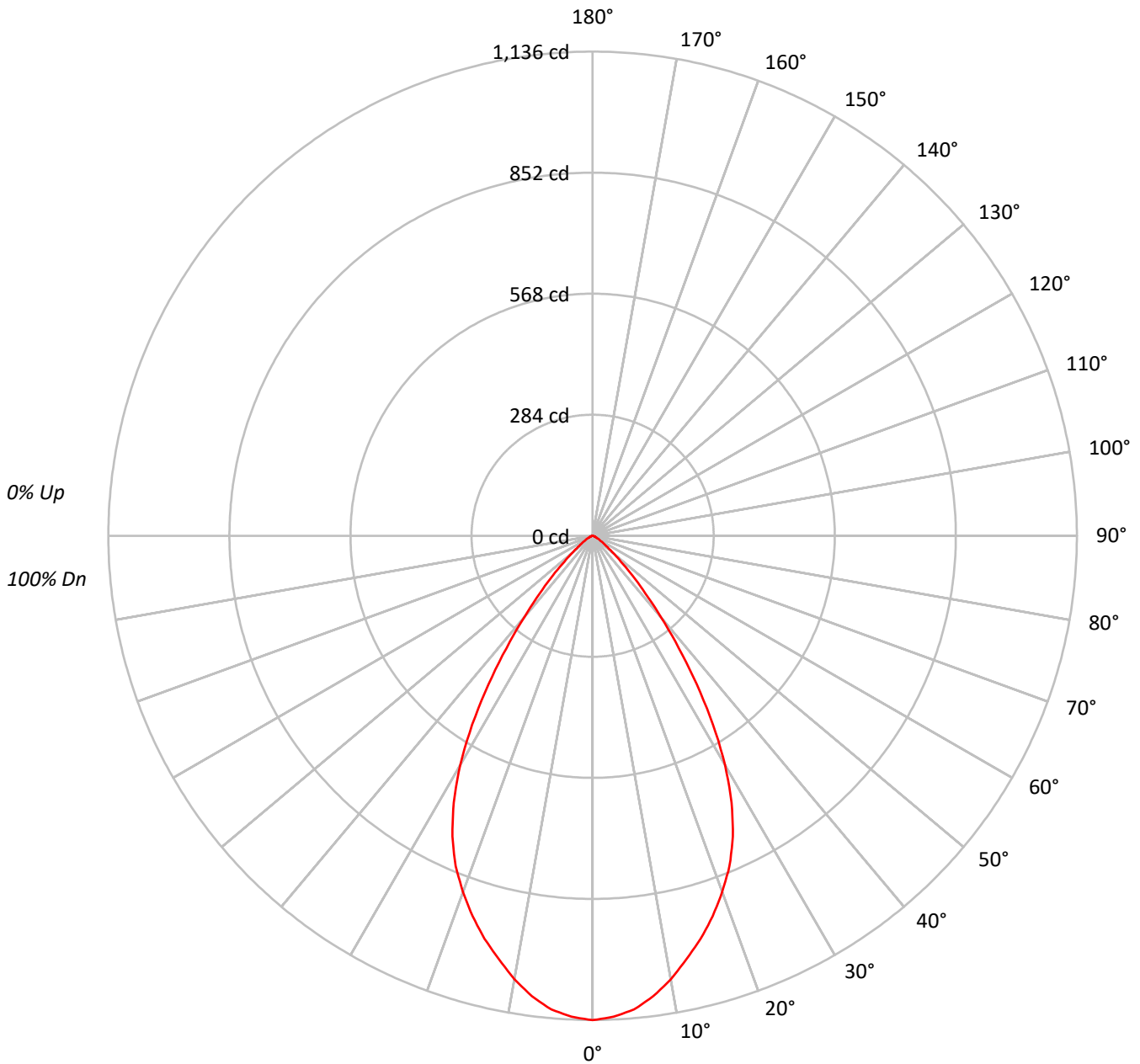
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			100
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93			93
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85			85
3	101	94	89	85	99	93	88	84	90	86	83	88	84	82	86	83	80	79			79
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	73			73
5	90	82	75	71	89	81	75	70	79	74	70	77	73	69	75	72	69	67			67
6	86	76	70	65	84	75	69	65	74	68	64	72	68	64	71	67	64	62			62
7	81	71	65	60	80	70	64	60	69	64	60	68	63	59	67	62	59	58			58
8	77	67	60	56	75	66	60	56	65	59	56	64	59	55	63	58	55	54			54
9	73	63	56	52	72	62	56	52	61	56	52	60	55	52	59	55	52	50			50
10	69	59	53	49	68	59	53	49	58	52	49	57	52	48	56	52	48	47			47

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

	0°
0°	124164
5°	122357
10°	117248
15°	110740
20°	103367
25°	93829
30°	78335
35°	56754
40°	35529
45°	20319
50°	10590
55°	5924
60°	3780
65°	2223
70°	1661
75°	718
80°	1070
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.6	9.1
10°-20°	274.3	23.9
20°-30°	352.5	30.8
30°-40°	265.2	23.1
40°-50°	106.5	9.3
50°-60°	30.3	2.6
60°-70°	9.6	0.8
70°-80°	2.7	0.2
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°	731.4	63.8
0°-40°	996.7	87.0
0°-60°	1133.4	98.9
0°-90°	1146.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1146.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1136	
5°	1116	105
15°	979	274
25°	778	353
35°	426	265
45°	132	107
55°	31	30
65°	9	10
75°	2	3
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1136.4
2.5°	1129.5
5°	1115.6
7.5°	1089.7
10°	1056.8
12.5°	1017.0
15°	979.0
17.5°	935.7
20°	889.0
22.5°	838.9
25°	778.3
27.5°	705.7
30°	620.9
32.5°	525.8
35°	425.5
37.5°	332.1
40°	249.1
42.5°	183.3
45°	131.5
47.5°	89.9
50°	62.3
52.5°	43.2
55°	31.1
57.5°	22.5
60°	17.3
62.5°	12.1
65°	8.6
67.5°	6.9
70°	5.2
72.5°	3.5
75°	1.7
77.5°	1.7
80°	1.7
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)