

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: P274306

Luminaire Tested: **LD4B20DE010W2N2050 EU4B1020W2N902050 4LBS0H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P274306  
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: LD4B20DE010W2N2050 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: 1447.6 lumens  
Efficiency: N/A  
Efficacy: 51.7 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

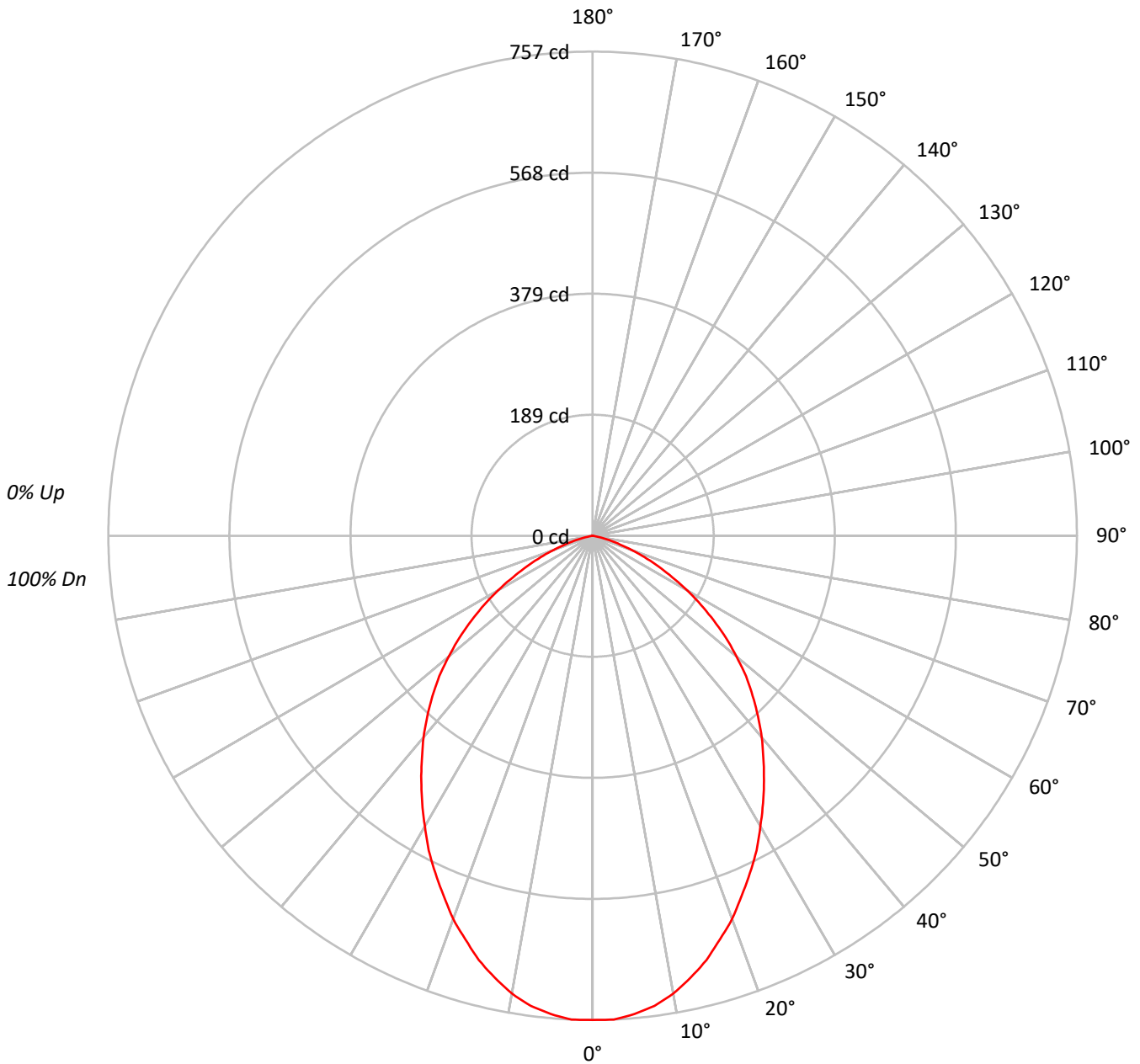
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20									20									20									20									
RC	80									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°	73786
5°	73441
10°	71925
15°	69316
20°	66127
25°	62563
30°	59013
35°	55561
40°	52314
45°	48763
50°	44470
55°	39267
60°	33233
65°	26105
70°	18607
75°	10204
80°	1796
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	70.9	4.9
10°-20°	192.8	13.3
20°-30°	267.7	18.5
30°-40°	292.1	20.2
40°-50°	272.5	18.8
50°-60°	206.8	14.3
60°-70°	113.3	7.8
70°-80°	31.2	2.2
80°-90°	0.4	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°	531.4	36.7
0°-40°	823.5	56.9
0°-60°	1302.8	90.0
0°-90°	1447.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1447.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	757	
5°	751	71
15°	687	193
25°	582	268
35°	467	292
45°	354	272
55°	231	207
65°	113	113
75°	27	31
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	757.1
2.5°	757.1
5°	750.7
7.5°	741.2
10°	726.8
12.5°	707.7
15°	687.0
17.5°	661.5
20°	637.6
22.5°	608.9
25°	581.8
27.5°	554.7
30°	524.4
32.5°	495.7
35°	467.0
37.5°	438.3
40°	411.2
42.5°	382.5
45°	353.8
47.5°	325.2
50°	293.3
52.5°	263.0
55°	231.1
57.5°	200.8
60°	170.5
62.5°	140.3
65°	113.2
67.5°	87.7
70°	65.3
72.5°	44.6
75°	27.1
77.5°	12.8
80°	3.2
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)