

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: P274261

Luminaire Tested: **LD4B20DE010W2N2765 EU4B1020W2N902765 4LBN0H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P274261  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1808-906-1)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD4B20DE010W2N2765 EU4B1020W2N902765 4LBN0H  
Description: PORTFOLIO 4" W2N RN DOWNLIGHT, NARROW DISTRIBUTION WITH HAZE FINISH  
Light Source: W2N 2700K-6500K CCT TUNING RANGE  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1059.0 lumens  
Efficiency: N/A  
Efficacy: 37.8 lumens/watt  
Spacing Criteria (0/90/45): 0.77 / 0.77 / 0.82  
Luminous Opening: Circular (Dia: 0.35' x H: 0')  
CIE Type: Direct

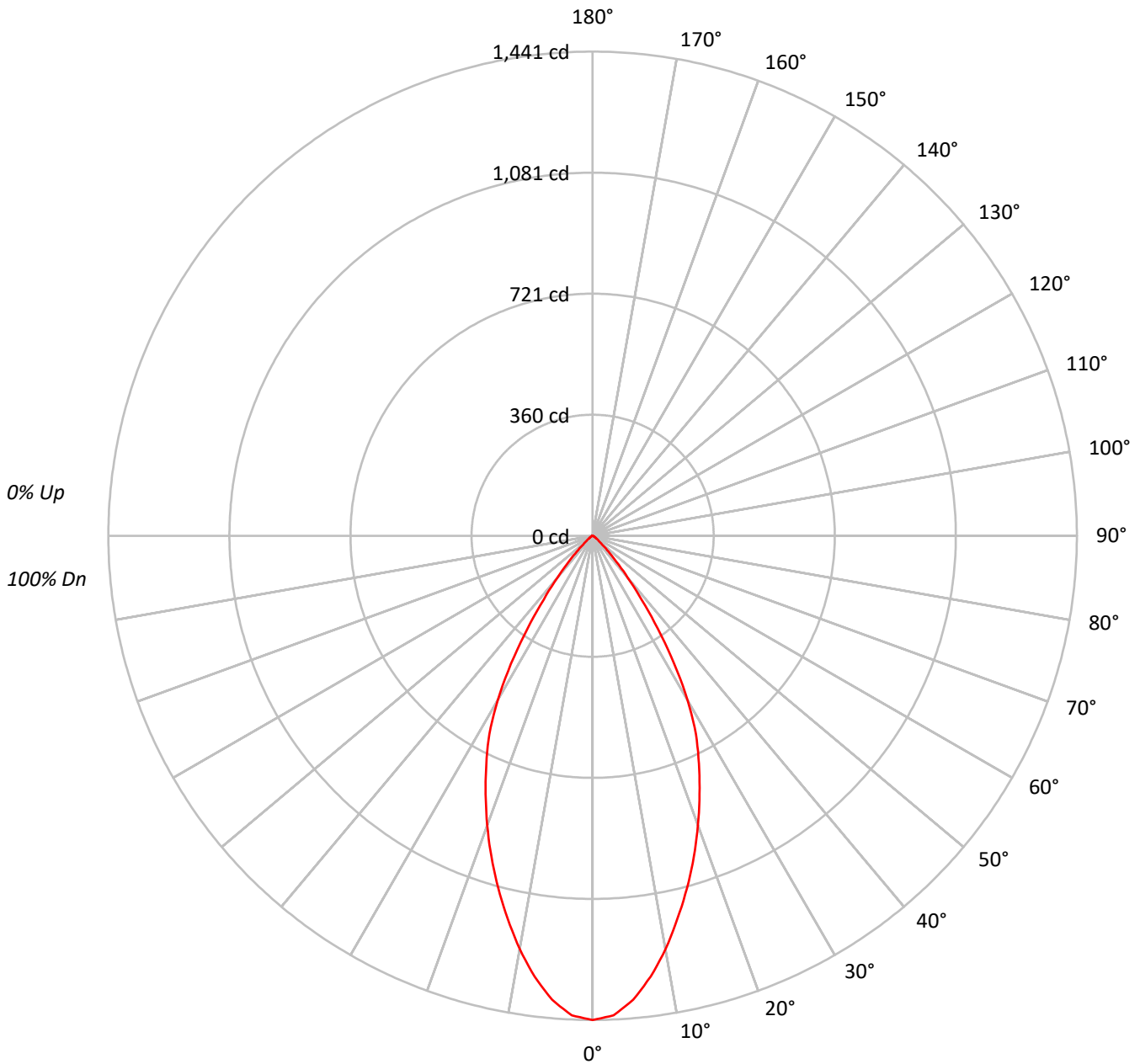
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	114	111	108	106	111	109	107	105	105	103	101	101	100	98	98	97	96	94			94
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87			87
3	103	97	92	88	101	95	91	87	93	89	86	90	87	84	88	85	83	81			81
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	78	76			76
5	93	85	79	75	91	84	78	74	82	77	74	80	76	73	79	75	73	71			71
6	88	80	74	70	87	79	73	69	77	73	69	76	72	68	75	71	68	67			67
7	84	75	69	65	83	74	69	65	73	68	65	72	67	64	71	67	64	62			62
8	80	71	65	61	79	70	65	61	69	64	61	68	64	60	67	63	60	59			59
9	76	67	61	57	75	67	61	57	66	61	57	65	60	57	64	60	57	55			55
10	73	64	58	54	72	63	58	54	62	57	54	62	57	54	61	57	54	52			52

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

	0°
0°	157478
5°	152036
10°	138583
15°	122764
20°	106599
25°	90200
30°	71345
35°	44963
40°	23135
45°	10229
50°	4012
55°	2400
60°	1377
65°	827
70°	511
75°	675
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	127.9	12.1
10°-20°	302.6	28.6
20°-30°	341.0	32.2
30°-40°	213.6	20.2
40°-50°	57.1	5.4
50°-60°	12.0	1.1
60°-70°	3.7	0.4
70°-80°	1.0	0.1
80°-90°	0.0	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°	771.5	72.8
0°-40°	985.1	93.0
0°-60°	1054.3	99.6
0°-90°	1059.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1059.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1441	
5°	1386	128
15°	1085	303
25°	748	341
35°	337	214
45°	66	57
55°	13	12
65°	3	4
75°	2	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1441.3
2.5°	1428.7
5°	1386.2
7.5°	1323.2
10°	1249.1
12.5°	1167.2
15°	1085.3
17.5°	1001.8
20°	916.8
22.5°	831.7
25°	748.2
27.5°	666.3
30°	565.5
32.5°	452.1
35°	337.1
37.5°	239.4
40°	162.2
42.5°	105.5
45°	66.2
47.5°	37.8
50°	23.6
52.5°	17.3
55°	12.6
57.5°	9.5
60°	6.3
62.5°	4.7
65°	3.2
67.5°	3.2
70°	1.6
72.5°	1.6
75°	1.6
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)