

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: P274290

Luminaire Tested: **LD4B15DE010W2N2765 EU4B1020W2N902765 4LBW0MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P274290  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35172)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD4B15DE010W2N2765 EU4B1020W2N902765 4LBW0MW  
Description: PORTFOLIO 4" W2N RN DOWNLIGHT, WIDE DISTRIBUTION WITH MATTE WHITE FINISH  
Light Source: W2N 2700K-6500K CCT TUNING RANGE  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1216.7 lumens  
Efficiency: N/A  
Efficacy: 55.3 lumens/watt  
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.09  
Luminous Opening: Circular (Dia: 0.35' x H: 0')  
CIE Type: Direct

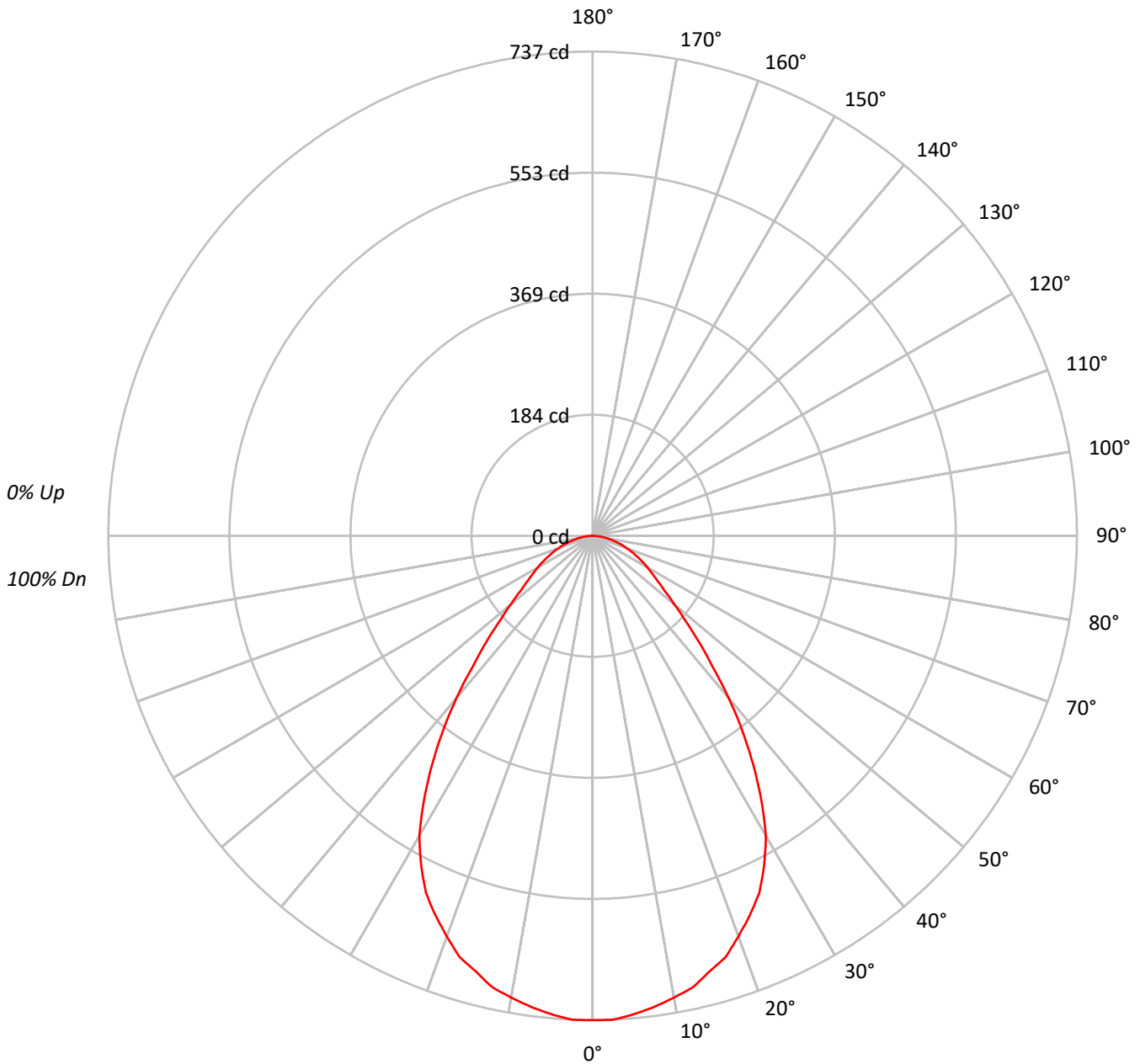
Input Watts (W): 22  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	103	96	91	86	101	94	89	85	91	87	83	88	84	81	85	82	80	78			
3	96	87	80	75	93	85	79	74	83	77	73	80	76	72	78	74	71	69			
4	89	79	72	66	87	78	71	66	75	69	65	73	68	64	71	67	63	61			
5	83	72	64	59	81	71	64	58	69	63	58	67	62	57	65	61	57	55			
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	60	55	51	50			
7	73	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45			
8	68	56	49	44	67	56	49	44	54	48	43	53	47	43	52	47	43	41			
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	43	39	38			
10	61	49	42	37	59	48	41	37	47	41	37	46	41	37	46	40	36	35			

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

	0°
0°	80558
5°	80164
10°	79171
15°	77676
20°	75438
25°	72321
30°	66526
35°	56848
40°	45941
45°	35369
50°	27639
55°	23164
60°	21044
65°	19183
70°	17666
75°	16000
80°	13905
85°	11909



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.2	5.7
10°-20°	193.6	15.9
20°-30°	273.6	22.5
30°-40°	265.0	21.8
40°-50°	178.8	14.7
50°-60°	111.0	9.1
60°-70°	74.2	6.1
70°-80°	40.6	3.3
80°-90°	10.8	0.9
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°	536.4	44.1
0°-40°	801.4	65.9
0°-60°	1091.2	89.7
0°-90°	1216.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1216.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	737	
5°	731	69
15°	687	194
25°	600	274
35°	426	265
45°	229	179
55°	122	111
65°	74	74
75°	38	41
85°	10	11
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	737.3
2.5°	737.3
5°	730.9
7.5°	723.0
10°	713.6
12.5°	704.1
15°	686.7
17.5°	672.5
20°	648.8
22.5°	625.2
25°	599.9
27.5°	565.2
30°	527.3
32.5°	478.3
35°	426.2
37.5°	374.2
40°	322.1
42.5°	270.0
45°	228.9
47.5°	191.0
50°	162.6
52.5°	138.9
55°	121.6
57.5°	107.4
60°	96.3
62.5°	85.2
65°	74.2
67.5°	64.7
70°	55.3
72.5°	47.4
75°	37.9
77.5°	30.0
80°	22.1
82.5°	15.8
85°	9.5
87.5°	3.2
90°	0.0



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— 0°-180°







(END OF REPORT)