

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: P274289

Luminaire Tested: **LD4B10DE010W2N2765 EU4B1020W2N902765 4LBW0MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P274289  
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: LD4B10DE010W2N2765 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: 938.6 lumens  
Efficiency: N/A  
Efficacy: 67.0 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

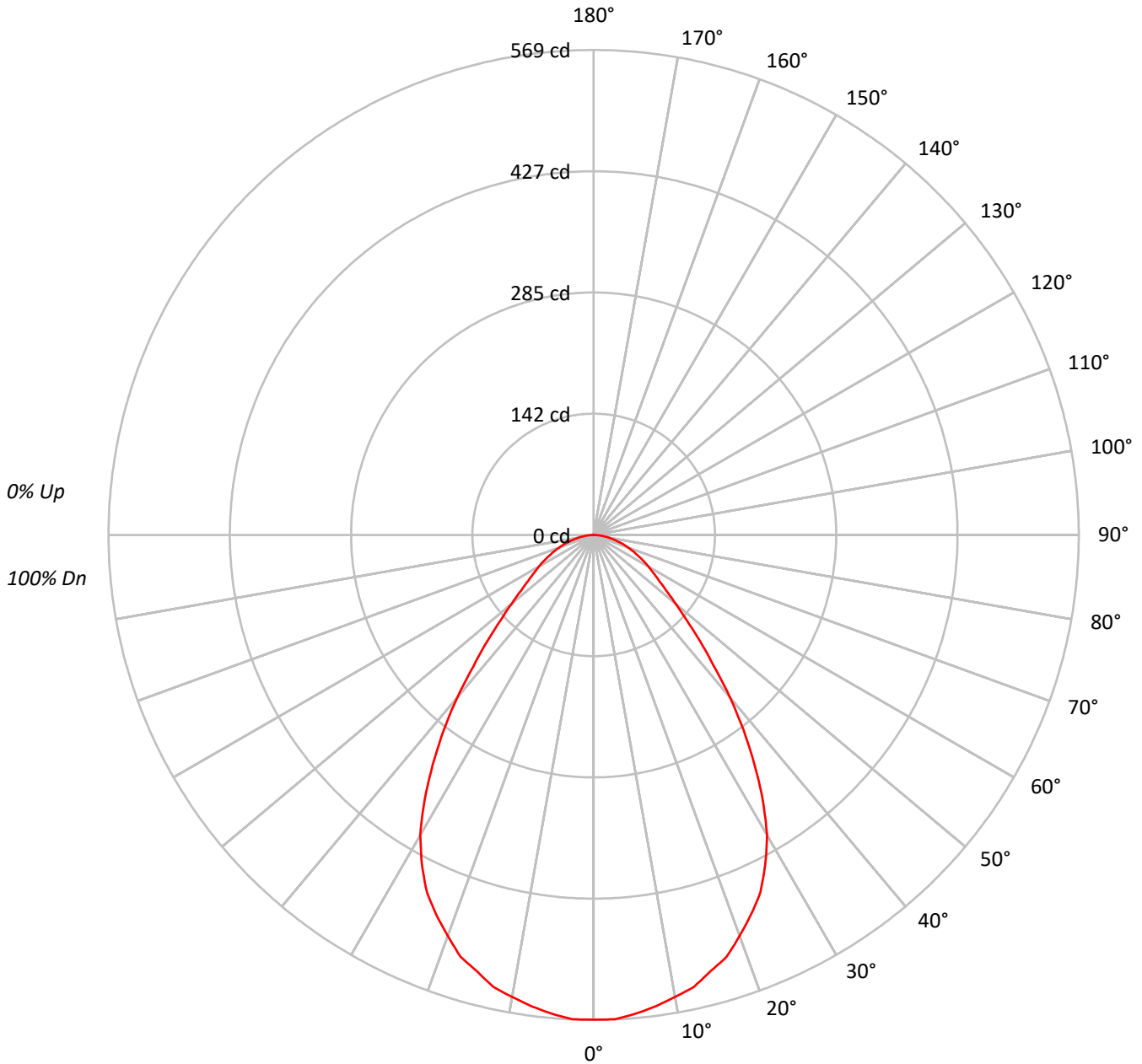
Input Watts (W): 14  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	62148
5°	61847
10°	61076
15°	59928
20°	58206
25°	55793
30°	51323
35°	43870
40°	35444
45°	27288
50°	21332
55°	17868
60°	16236
65°	14788
70°	13609
75°	12327
80°	10759
85°	9151



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	53.4	5.7
10°-20°	149.3	15.9
20°-30°	211.1	22.5
30°-40°	204.5	21.8
40°-50°	138.0	14.7
50°-60°	85.6	9.1
60°-70°	57.2	6.1
70°-80°	31.3	3.3
80°-90°	8.3	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°	413.8	44.1
0°-40°	618.3	65.9
0°-60°	841.9	89.7
0°-90°	938.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	938.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	569	
5°	564	53
15°	530	149
25°	463	211
35°	329	204
45°	177	138
55°	94	86
65°	57	57
75°	29	31
85°	7	8
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	568.8
2.5°	568.8
5°	563.9
7.5°	557.8
10°	550.5
12.5°	543.2
15°	529.8
17.5°	518.9
20°	500.6
22.5°	482.3
25°	462.8
27.5°	436.0
30°	406.8
32.5°	369.1
35°	328.9
37.5°	288.7
40°	248.5
42.5°	208.3
45°	176.6
47.5°	147.4
50°	125.5
52.5°	107.2
55°	93.8
57.5°	82.8
60°	74.3
62.5°	65.8
65°	57.2
67.5°	49.9
70°	42.6
72.5°	36.5
75°	29.2
77.5°	23.1
80°	17.1
82.5°	12.2
85°	7.3
87.5°	2.4
90°	0.0



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— 0°-180°







(END OF REPORT)