

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: P274267

Luminaire Tested: **LD4B20DE010W2N2765 EU4B1020W2N902765 4LBM0LI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P274267  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35290)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD4B20DE010W2N2765 EU4B1020W2N902765 4LBM0LI  
Description: PORTFOLIO 4" W2N RN DOWNLIGHT, MEDIUM DISTRIBUTION WITH SPECULAR FINISH  
Light Source: W2N 2700K-6500K CCT TUNING RANGE  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1596.9 lumens  
Efficiency: N/A  
Efficacy: 57.0 lumens/watt  
Spacing Criteria (0/90/45): 0.7 / 0.7 / 0.76  
Luminous Opening: Circular (Dia: 0.35' x H: 0')  
CIE Type: Direct

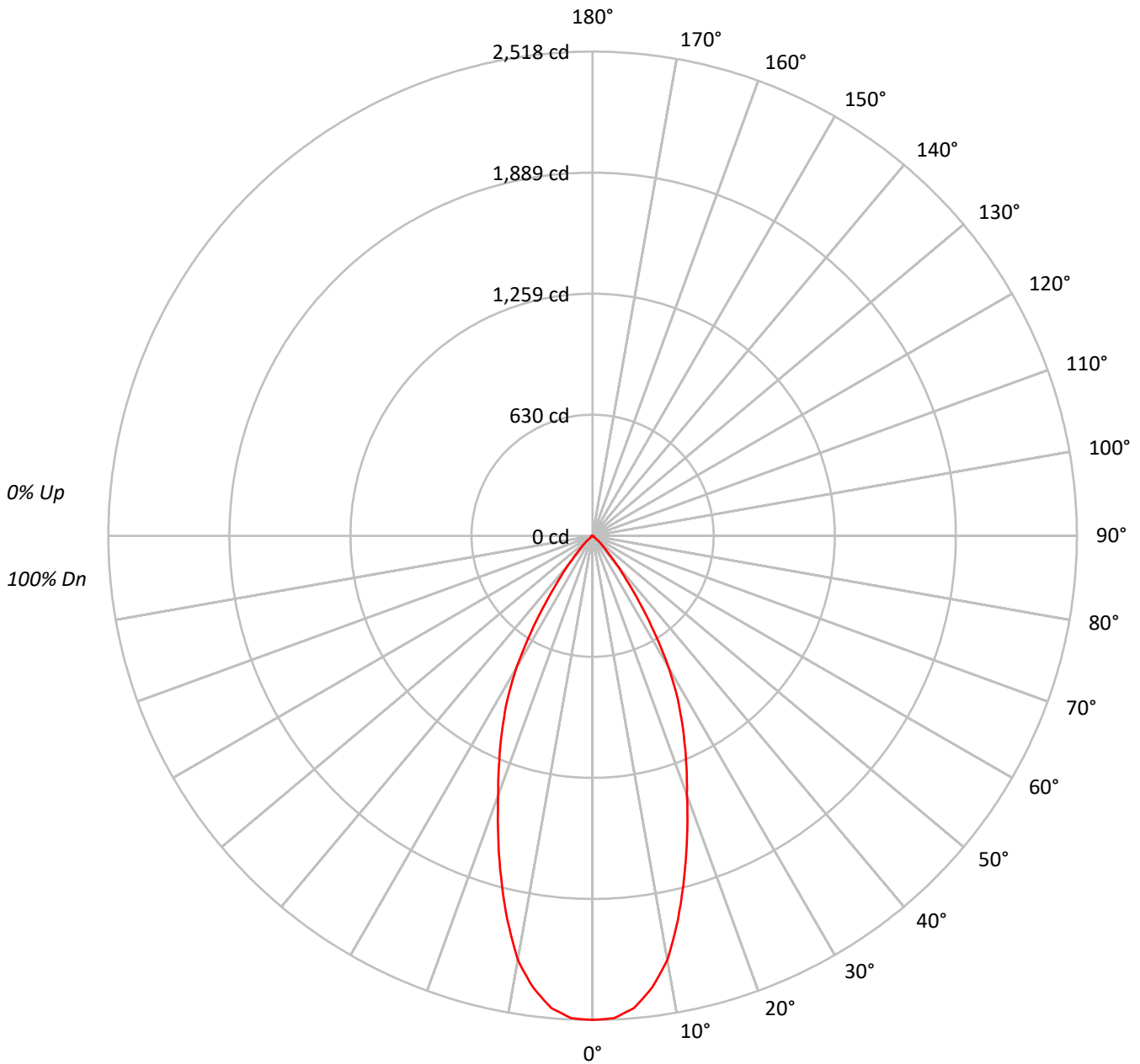
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			
1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94			
2	109	104	100	97	107	102	99	96	99	96	94	96	94	92	94	92	90	88			
3	104	98	93	89	102	96	92	89	94	90	87	91	88	86	89	87	85	83			
4	99	92	87	83	97	91	86	82	89	85	81	87	83	80	85	82	79	78			
5	94	87	81	77	93	86	81	77	84	79	76	82	78	75	81	77	75	73			
6	90	82	76	72	89	81	76	72	80	75	71	78	74	71	77	73	71	69			
7	86	77	72	68	85	77	71	68	75	71	67	74	70	67	73	69	67	65			
8	82	73	68	64	81	73	67	64	72	67	64	71	66	63	70	66	63	62			
9	79	70	64	60	78	69	64	60	68	63	60	67	63	60	67	63	60	58			
10	75	66	61	57	74	66	61	57	65	60	57	64	60	57	64	60	57	56			

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

	0°
0°	275064
5°	270389
10°	248442
15°	208053
20°	166689
25°	133926
30°	99694
35°	56954
40°	26729
45°	11342
50°	3621
55°	1848
60°	1267
65°	1008
70°	607
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	227.9	14.3
10°-20°	509.6	31.9
20°-30°	506.6	31.7
30°-40°	275.9	17.3
40°-50°	63.8	4.0
50°-60°	9.0	0.6
60°-70°	3.3	0.2
70°-80°	0.7	0.0
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°	1244.2	77.9
0°-40°	1520.1	95.2
0°-60°	1592.8	99.7
0°-90°	1596.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1596.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2518	
5°	2465	228
15°	1839	510
25°	1111	507
35°	427	276
45°	73	64
55°	10	9
65°	4	3
75°	0	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2517.5
2.5°	2511.7
5°	2465.3
7.5°	2370.6
10°	2239.3
12.5°	2046.1
15°	1839.3
17.5°	1634.5
20°	1433.6
22.5°	1269.4
25°	1110.9
27.5°	960.2
30°	790.2
32.5°	600.9
35°	427.0
37.5°	287.9
40°	187.4
42.5°	117.9
45°	73.4
47.5°	42.5
50°	21.3
52.5°	11.6
55°	9.7
57.5°	5.8
60°	5.8
62.5°	3.9
65°	3.9
67.5°	1.9
70°	1.9
72.5°	1.9
75°	0.0
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)