

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: P274303

Luminaire Tested: **LD4B20DE010W2N2765 EU4B1020W2N902765 4LBS0H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P274303  
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: LD4B20DE010W2N2765 EU4B1020W2N902765 4LBS0H  
Description: PORTFOLIO 4" W2N RN DOWNLIGHT, SHALLOW WITH HAZE FINISH  
Light Source: W2N 2700K-6500K CCT TUNING RANGE  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1613.7 lumens  
Efficiency: N/A  
Efficacy: 57.6 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

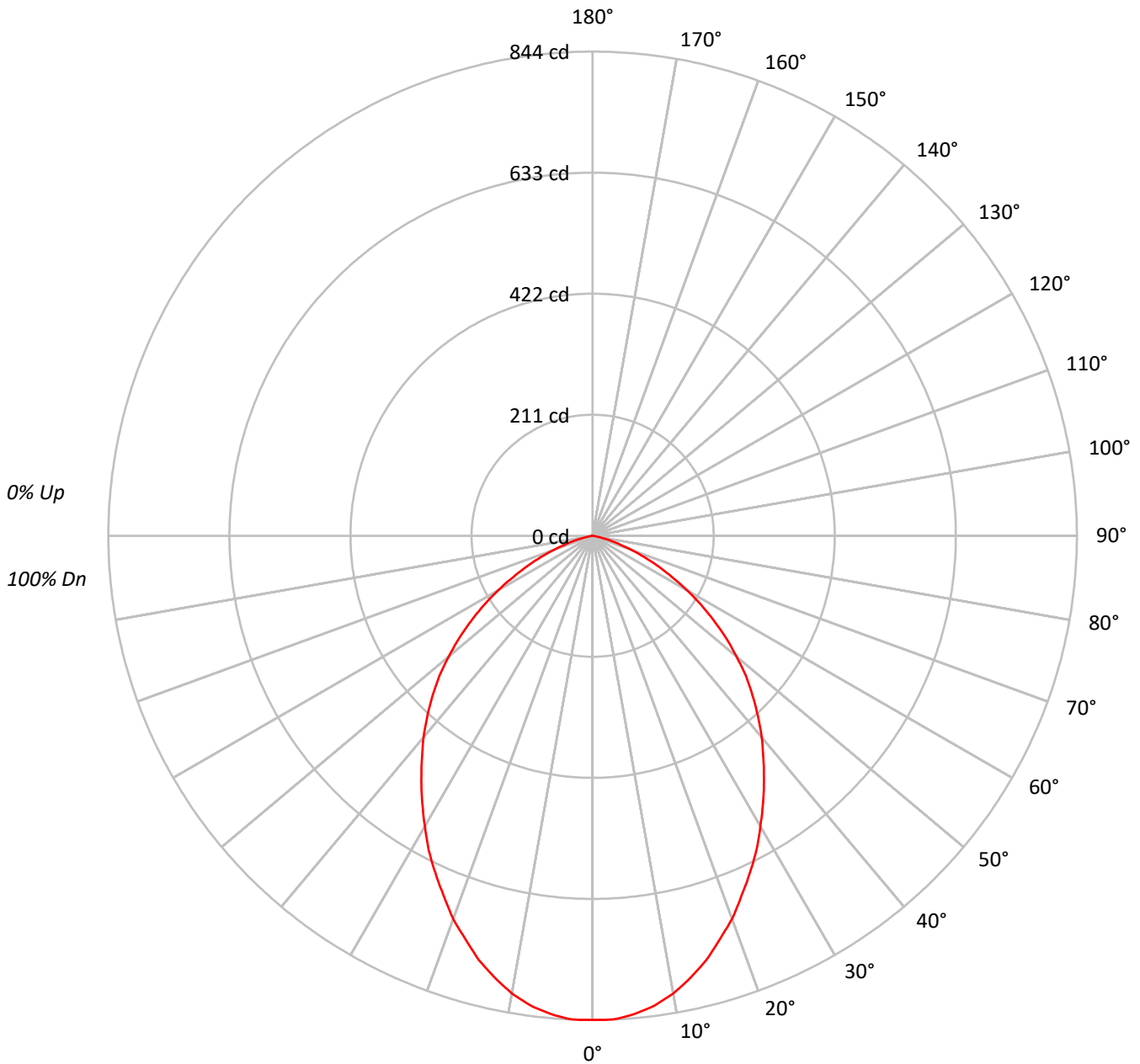
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	82255
5°	81874
10°	80179
15°	77266
20°	73709
25°	69735
30°	65788
35°	61938
40°	58319
45°	54359
50°	49564
55°	43770
60°	37054
65°	29102
70°	20744
75°	11372
80°	2020
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	79.1	4.9
10°-20°	214.9	13.3
20°-30°	298.4	18.5
30°-40°	325.6	20.2
40°-50°	303.7	18.8
50°-60°	230.6	14.3
60°-70°	126.3	7.8
70°-80°	34.7	2.2
80°-90°	0.5	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°	592.3	36.7
0°-40°	917.9	56.9
0°-60°	1452.2	90.0
0°-90°	1613.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1613.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	844	
5°	837	79
15°	766	215
25°	648	298
35°	521	326
45°	394	304
55°	258	231
65°	126	126
75°	30	35
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	844.0
2.5°	844.0
5°	836.9
7.5°	826.2
10°	810.2
12.5°	788.9
15°	765.8
17.5°	737.4
20°	710.7
22.5°	678.7
25°	648.5
27.5°	618.3
30°	584.6
32.5°	552.6
35°	520.6
37.5°	488.6
40°	458.4
42.5°	426.4
45°	394.4
47.5°	362.5
50°	326.9
52.5°	293.2
55°	257.6
57.5°	223.9
60°	190.1
62.5°	156.4
65°	126.2
67.5°	97.7
70°	72.8
72.5°	49.7
75°	30.2
77.5°	14.2
80°	3.6
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)