

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: P274284

Luminaire Tested: **LD4B15DE010W2N2765 EU4B1020W2N902765 4LBW0H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P274284
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35167)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD4B15DE010W2N2765 EU4B1020W2N902765 4LBW0H
Description: PORTFOLIO 4" W2N RN DOWNLIGHT, WIDE DISTRIBUTION WITH HAZE FINISH
Light Source: W2N 2700K-6500K CCT TUNING RANGE
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1161.4 lumens
Efficiency: N/A
Efficacy: 52.8 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.13
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

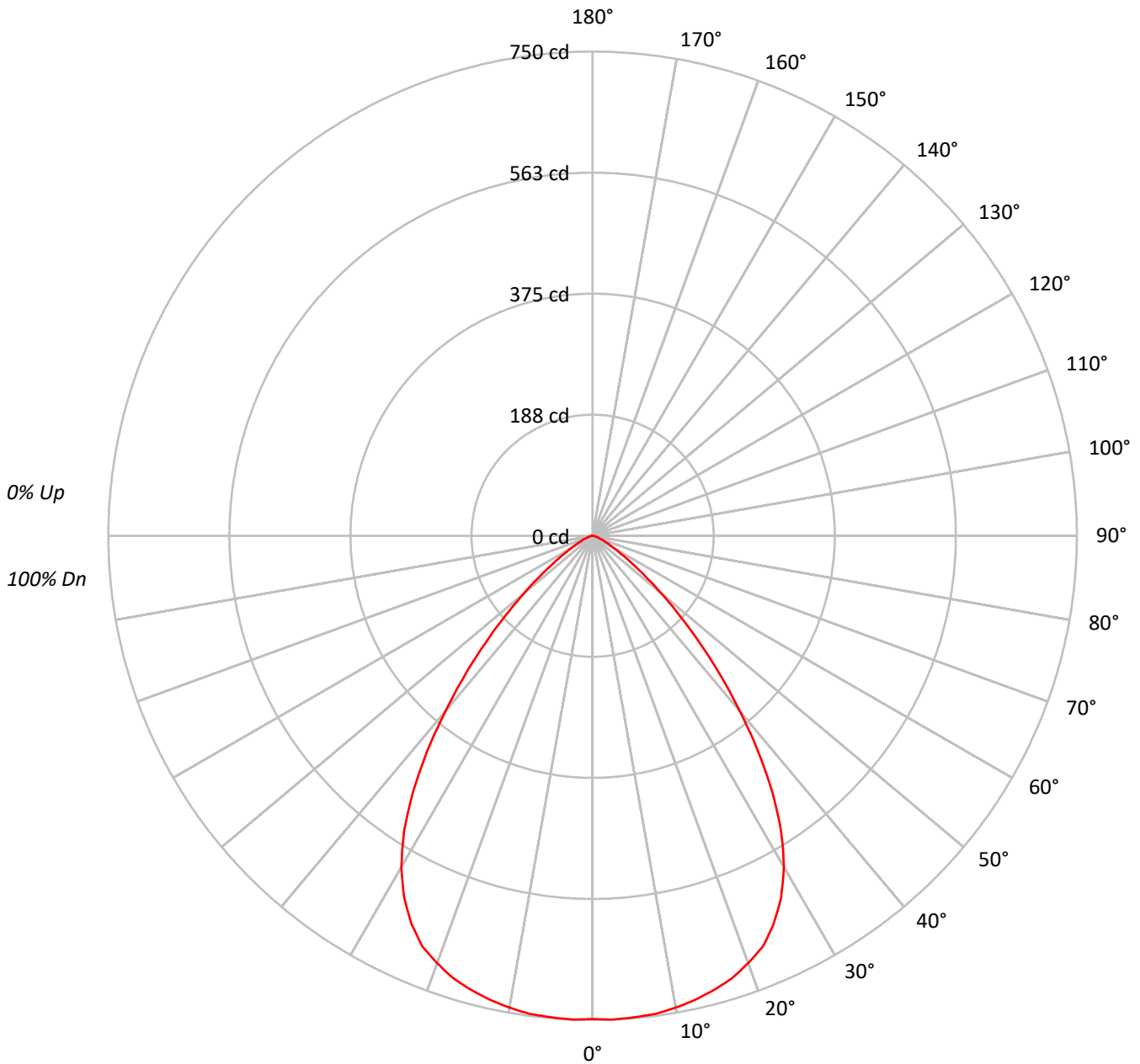
Input Watts (W): 22
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91			
2	105	100	95	91	103	98	93	90	95	91	88	91	88	86	89	86	84	82			
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74			
4	92	83	77	72	90	82	76	71	80	75	70	78	73	70	76	72	69	67			
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	62	61			
6	81	71	64	58	80	70	63	58	68	62	58	67	61	57	65	61	57	55			
7	76	65	58	53	75	65	58	53	63	57	53	62	56	52	61	56	52	50			
8	72	60	53	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46			
9	67	56	49	45	66	56	49	45	55	49	44	54	48	44	53	48	44	43			
10	64	52	46	41	63	52	46	41	51	45	41	50	45	41	49	44	41	39			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	81782
5°	82094
10°	82344
15°	82359
20°	81903
25°	79977
30°	74752
35°	64744
40°	50577
45°	36281
50°	23576
55°	14115
60°	8260
65°	5300
70°	3514
75°	2660
80°	2013
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.3	6.1
10°-20°	205.4	17.7
20°-30°	303.1	26.1
30°-40°	299.1	25.8
40°-50°	183.1	15.8
50°-60°	70.2	6.0
60°-70°	21.9	1.9
70°-80°	6.4	0.6
80°-90°	0.9	0.1
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°	579.8	49.9
0°-40°	878.9	75.7
0°-60°	1132.1	97.5
0°-90°	1161.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1161.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	748	
5°	748	71
15°	728	205
25°	663	303
35°	485	299
45°	235	183
55°	74	70
65°	20	22
75°	6	6
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	748.5
2.5°	750.1
5°	748.5
7.5°	747.0
10°	742.2
12.5°	735.9
15°	728.1
17.5°	718.6
20°	704.4
22.5°	688.7
25°	663.4
27.5°	631.9
30°	592.5
32.5°	543.7
35°	485.4
37.5°	420.8
40°	354.6
42.5°	293.1
45°	234.8
47.5°	182.8
50°	138.7
52.5°	102.4
55°	74.1
57.5°	52.0
60°	37.8
62.5°	28.4
65°	20.5
67.5°	15.8
70°	11.0
72.5°	7.9
75°	6.3
77.5°	3.2
80°	3.2
82.5°	1.6
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)