

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: P274275

Luminaire Tested: **LD4B15DE010W2N2050 EU4B1020W2N902050 4LBM0H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P274275
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35173)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD4B15DE010W2N2050 EU4B1020W2N902050 4LBM0H
Description: PORTFOLIO 4" W2N RN DOWNLIGHT, MEDIUM DISTRIBUTION WITH HAZE FINISH
Light Source: W2N 2000K-5000K CCT TUNING RANGE
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 926.5 lumens
Efficiency: N/A
Efficacy: 42.1 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.93
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

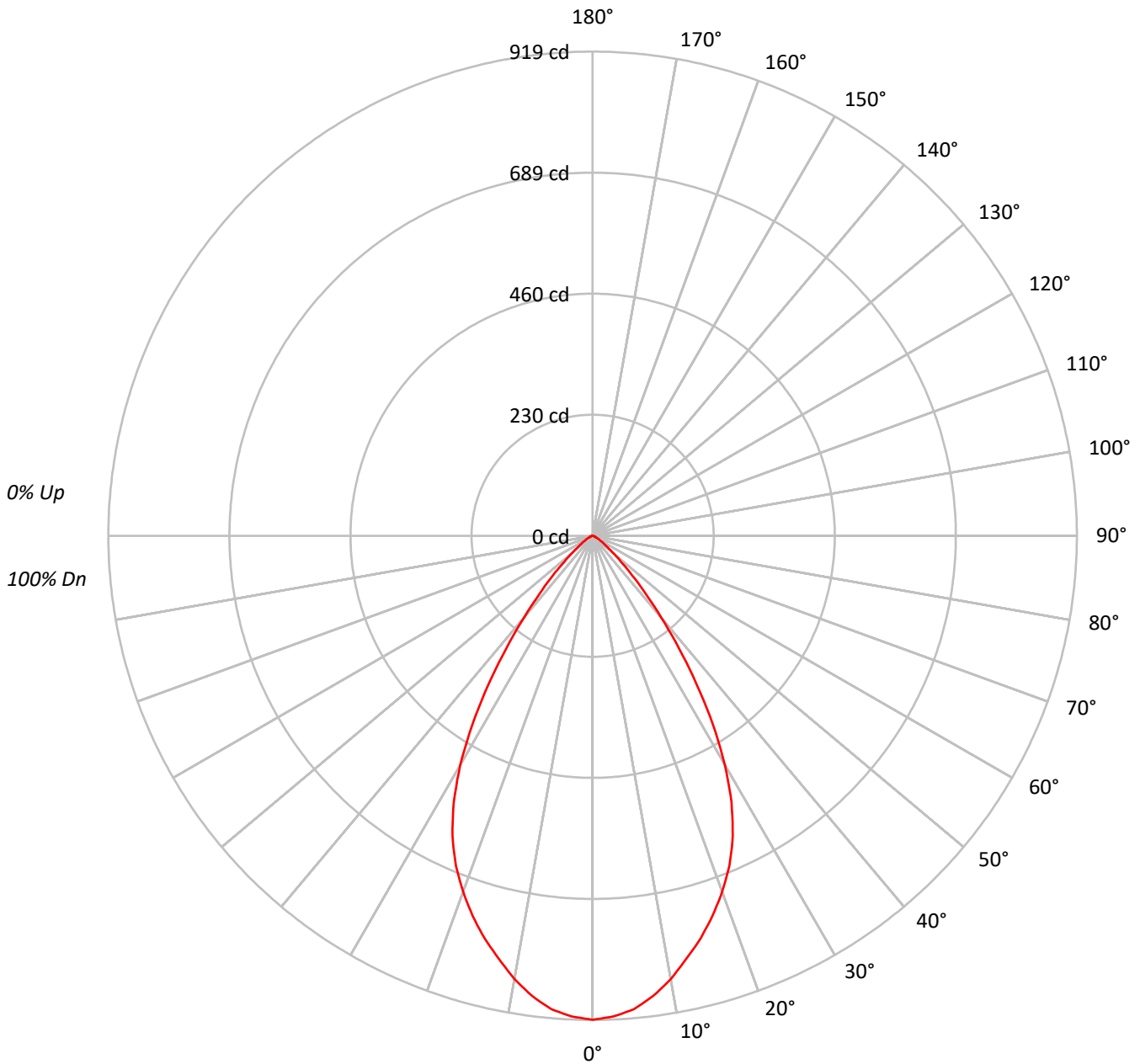
Input Watts (W): 22
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	100	100
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93	93	93	93
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85	85	85	85
3	101	94	89	85	99	93	88	84	90	86	83	88	84	82	86	83	80	79	79	79	79
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	73	73	73	73
5	90	82	75	71	89	81	75	70	79	74	70	77	73	69	75	72	69	67	67	67	67
6	86	76	70	65	84	75	69	65	74	68	64	72	68	64	71	67	64	62	62	62	62
7	81	71	65	60	80	70	64	60	69	64	60	68	63	59	67	62	59	58	58	58	58
8	77	67	60	56	75	66	60	56	65	59	56	64	59	55	63	58	55	54	54	54	54
9	73	63	56	52	72	62	56	52	61	56	52	60	55	52	59	55	52	50	50	50	50
10	69	59	53	49	68	59	53	49	58	52	49	57	52	48	56	52	48	47	47	47	47

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	100378
5°	98919
10°	94792
15°	89519
20°	83565
25°	75854
30°	63334
35°	45884
40°	28726
45°	16425
50°	8550
55°	4800
60°	3059
65°	1810
70°	1342
75°	591
80°	881
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.5	9.1
10°-20°	221.8	23.9
20°-30°	285.0	30.8
30°-40°	214.4	23.1
40°-50°	86.1	9.3
50°-60°	24.5	2.6
60°-70°	7.8	0.8
70°-80°	2.2	0.2
80°-90°	0.2	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°	591.3	63.8
0°-40°	805.8	87.0
0°-60°	916.4	98.9
0°-90°	926.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	926.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	919	
5°	902	85
15°	791	222
25°	629	285
35°	344	214
45°	106	86
55°	25	24
65°	7	8
75°	1	2
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	918.7
2.5°	913.1
5°	901.9
7.5°	880.9
10°	854.4
12.5°	822.2
15°	791.4
17.5°	756.5
20°	718.7
22.5°	678.2
25°	629.2
27.5°	570.5
30°	502.0
32.5°	425.1
35°	344.0
37.5°	268.5
40°	201.4
42.5°	148.2
45°	106.3
47.5°	72.7
50°	50.3
52.5°	35.0
55°	25.2
57.5°	18.2
60°	14.0
62.5°	9.8
65°	7.0
67.5°	5.6
70°	4.2
72.5°	2.8
75°	1.4
77.5°	1.4
80°	1.4
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)