

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: P274263

Luminaire Tested: **LD4B15DE010W2N2050 EU4B1020W2N902050 4LBN0H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P274263
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1808-906-1)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD4B15DE010W2N2050 EU4B1020W2N902050 4LBN0H
Description: PORTFOLIO 4" W2N RN DOWNLIGHT, NARROW DISTRIBUTION WITH HAZE FINISH
Light Source: W2N 2000K-5000K CCT TUNING RANGE
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 768.0 lumens
Efficiency: N/A
Efficacy: 34.9 lumens/watt
Spacing Criteria (0/90/45): 0.77 / 0.77 / 0.82
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

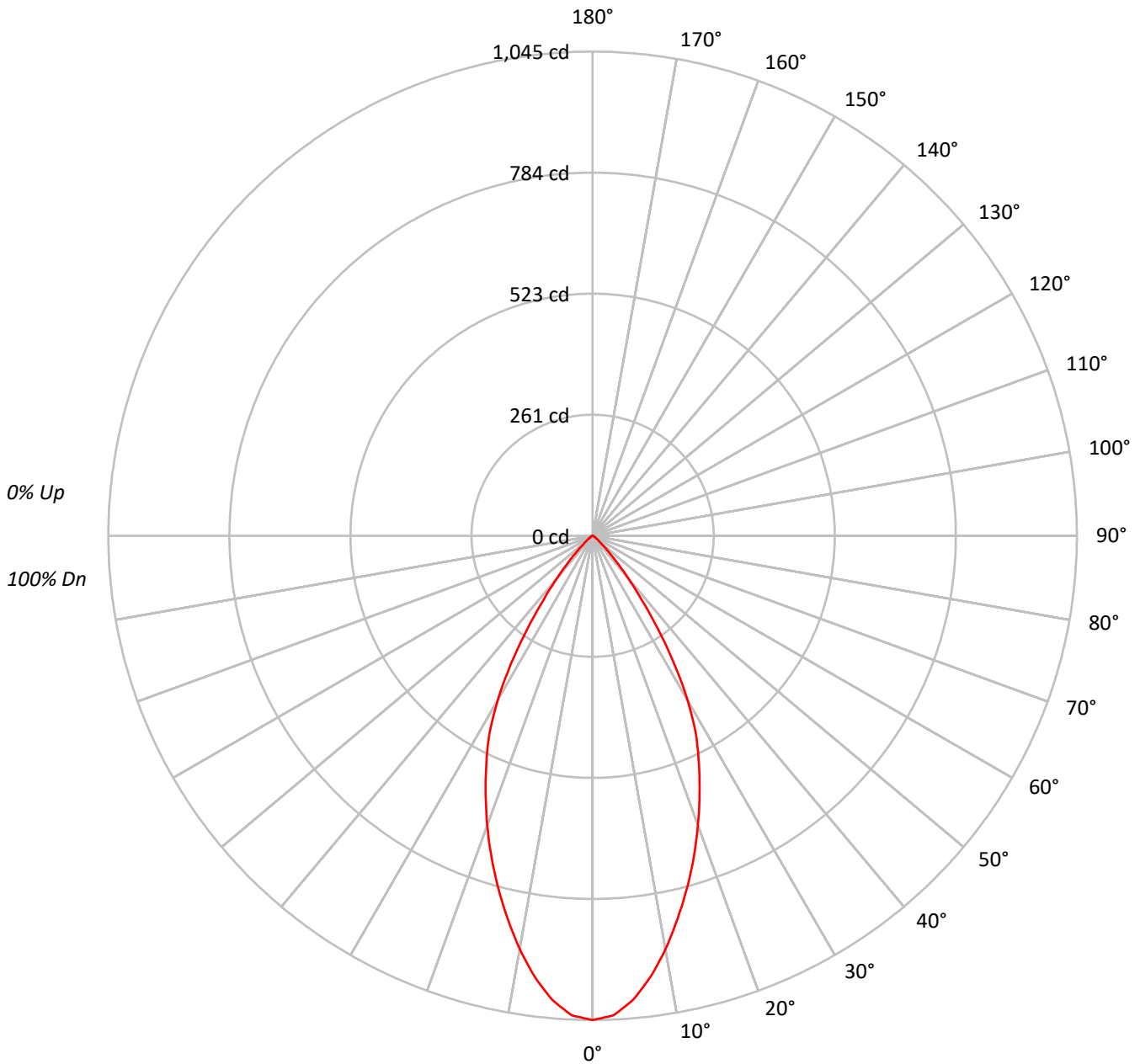
Input Watts (W): 22
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	114	111	108	106	111	109	107	105	105	103	101	101	100	98	98	97	96	94		
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87		
3	103	97	92	88	101	95	91	87	93	89	86	90	87	84	88	85	83	81		
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	78	76		
5	93	85	79	75	91	84	78	74	82	77	74	80	76	73	79	75	73	71		
6	88	80	74	70	87	79	73	69	77	73	69	76	72	68	75	71	68	67		
7	84	75	69	65	83	74	69	65	73	68	65	72	67	64	71	67	64	62		
8	80	71	65	61	79	70	65	61	69	64	61	68	64	60	67	63	60	59		
9	76	67	61	57	75	67	61	57	66	61	57	65	60	57	64	60	57	55		
10	73	64	58	54	72	63	58	54	62	57	54	62	57	54	61	57	54	52		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	114199
5°	110259
10°	100506
15°	89033
20°	77298
25°	65414
30°	51740
35°	32612
40°	16788
45°	7417
50°	2907
55°	1733
60°	1005
65°	595
70°	351
75°	464
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.7	12.1
10°-20°	219.4	28.6
20°-30°	247.3	32.2
30°-40°	154.9	20.2
40°-50°	41.4	5.4
50°-60°	8.7	1.1
60°-70°	2.7	0.3
70°-80°	0.7	0.1
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°	559.5	72.9
0°-40°	714.4	93.0
0°-60°	764.6	99.6
0°-90°	768.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	768.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1045	
5°	1005	93
15°	787	219
25°	543	247
35°	244	155
45°	48	41
55°	9	9
65°	2	3
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1045.2
2.5°	1036.1
5°	1005.3
7.5°	959.6
10°	905.9
12.5°	846.5
15°	787.1
17.5°	726.5
20°	664.8
22.5°	603.2
25°	542.6
27.5°	483.2
30°	410.1
32.5°	327.9
35°	244.5
37.5°	173.6
40°	117.7
42.5°	76.5
45°	48.0
47.5°	27.4
50°	17.1
52.5°	12.6
55°	9.1
57.5°	6.9
60°	4.6
62.5°	3.4
65°	2.3
67.5°	2.3
70°	1.1
72.5°	1.1
75°	1.1
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)