

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: P274305

Luminaire Tested: **LD4B15DE010W2N2050 EU4B1020W2N902050 4LBS0H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P274305
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: LD4B15DE010W2N2050 EU4B1020W2N902050 4LBS0H
Description: PORTFOLIO 4" W2N RN DOWNLIGHT, SHALLOW WITH HAZE FINISH
Light Source: W2N 2000K-5000K CCT TUNING RANGE
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1170.3 lumens
Efficiency: N/A
Efficacy: 53.2 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

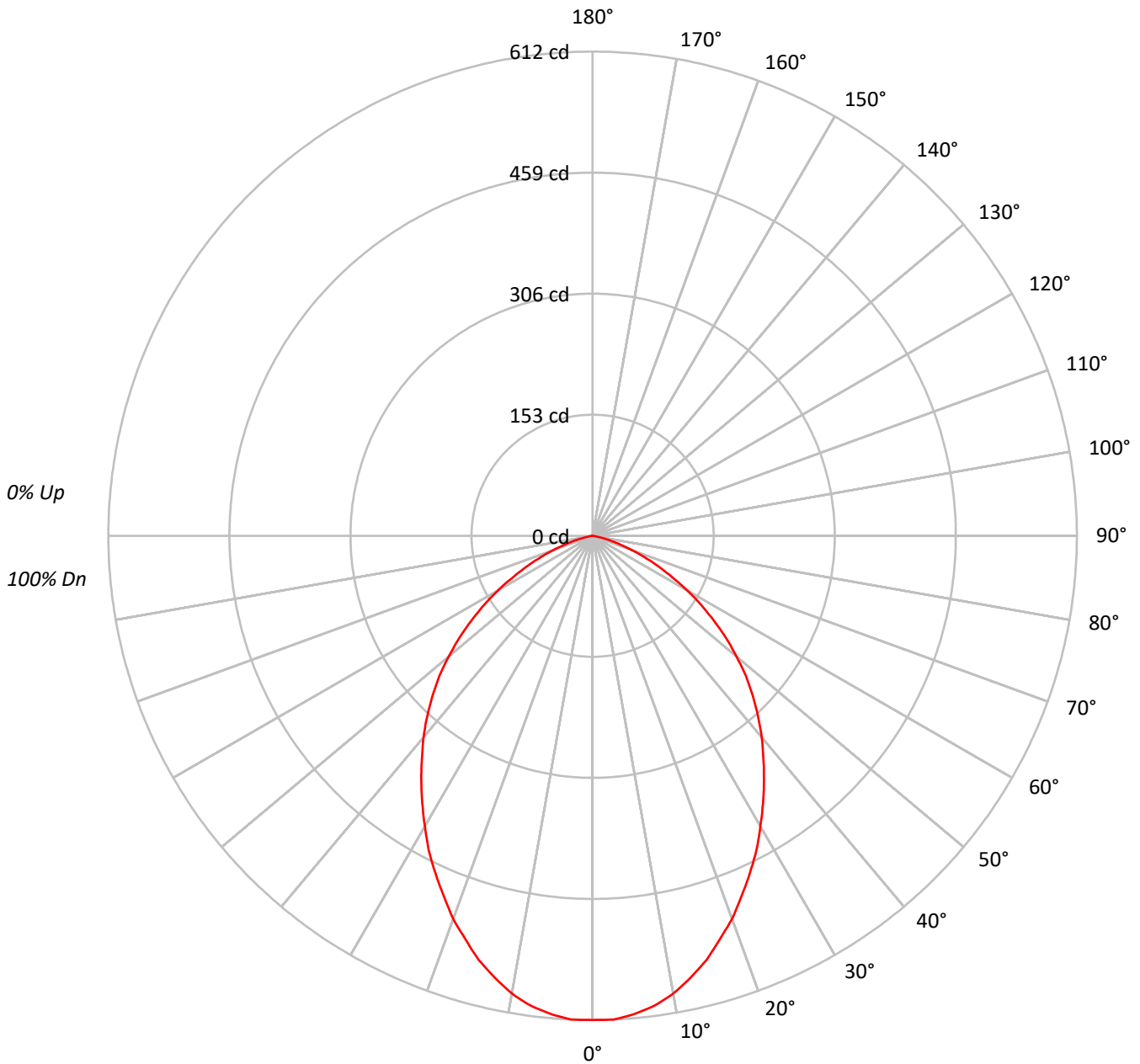
Input Watts (W): 22
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	59654
5°	59373
10°	58150
15°	56038
20°	53454
25°	50573
30°	47704
35°	44913
40°	42289
45°	39432
50°	35949
55°	31740
60°	26879
65°	21100
70°	15045
75°	8246
80°	1459
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.3	4.9
10°-20°	155.8	13.3
20°-30°	216.4	18.5
30°-40°	236.1	20.2
40°-50°	220.3	18.8
50°-60°	167.2	14.3
60°-70°	91.6	7.8
70°-80°	25.2	2.2
80°-90°	0.4	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°	429.5	36.7
0°-40°	665.7	56.9
0°-60°	1053.2	90.0
0°-90°	1170.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1170.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	612	
5°	607	57
15°	555	156
25°	470	216
35°	378	236
45°	286	220
55°	187	167
65°	92	92
75°	22	25
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	612.1
2.5°	612.1
5°	606.9
7.5°	599.2
10°	587.6
12.5°	572.1
15°	555.4
17.5°	534.7
20°	515.4
22.5°	492.2
25°	470.3
27.5°	448.4
30°	423.9
32.5°	400.7
35°	377.5
37.5°	354.3
40°	332.4
42.5°	309.3
45°	286.1
47.5°	262.9
50°	237.1
52.5°	212.6
55°	186.8
57.5°	162.4
60°	137.9
62.5°	113.4
65°	91.5
67.5°	70.9
70°	52.8
72.5°	36.1
75°	21.9
77.5°	10.3
80°	2.6
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)