

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: P274293

Luminaire Tested: **LD4B15DE010W2N2050 EU4B1020W2N902050 4LBW0MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P274293
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35172)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD4B15DE010W2N2050 EU4B1020W2N902050 4LBW0MW
Description: PORTFOLIO 4" W2N RN DOWNLIGHT, WIDE DISTRIBUTION WITH MATTE WHITE FINISH
Light Source: W2N 2000K-5000K CCT TUNING RANGE
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1072.8 lumens
Efficiency: N/A
Efficacy: 48.8 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.09
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

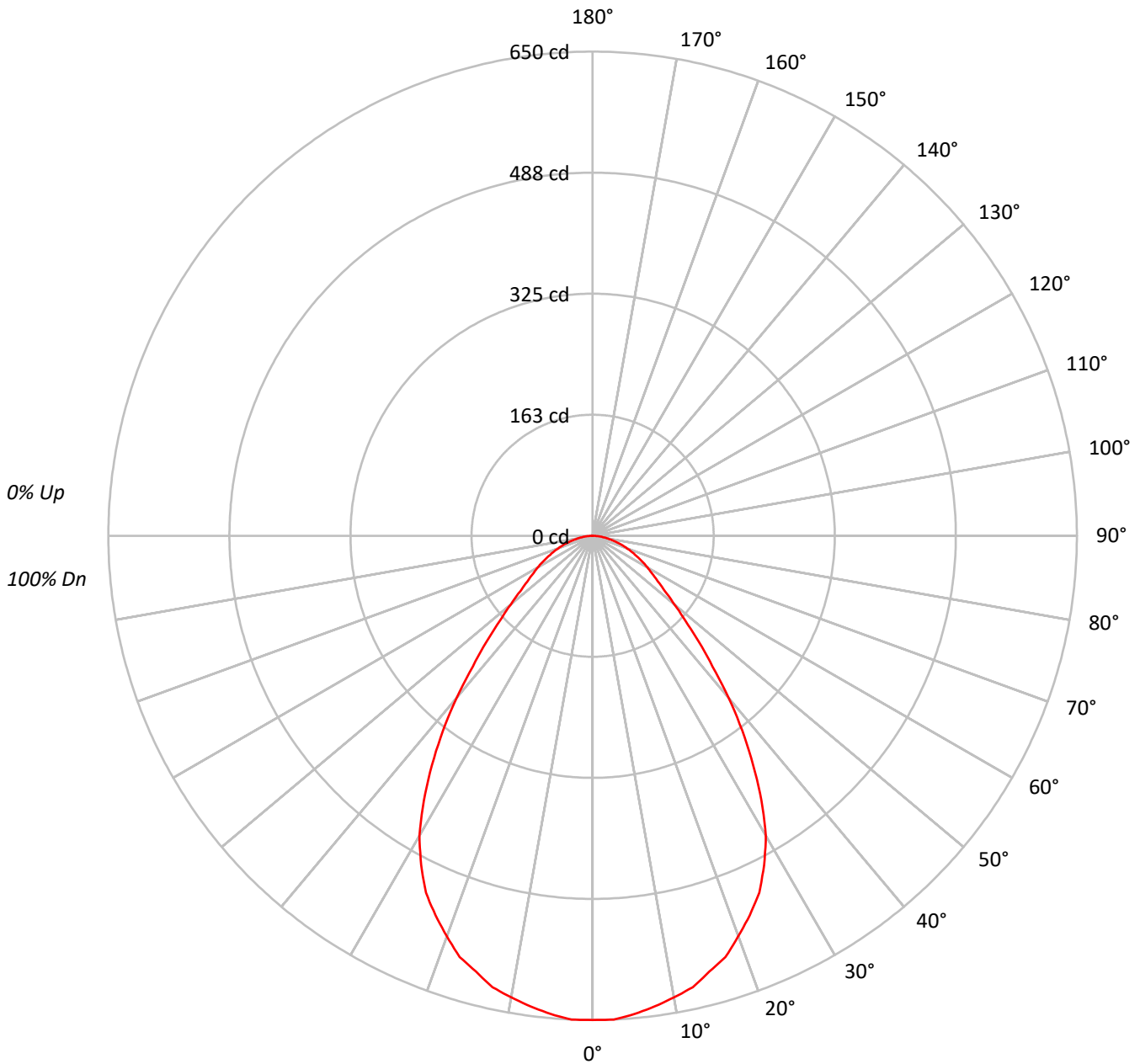
Input Watts (W): 22
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	103	96	91	86	101	94	89	85	91	87	83	88	84	81	85	82	80	78			
3	96	87	80	75	93	85	79	74	83	77	73	80	76	72	78	74	71	69			
4	89	79	72	66	87	78	71	66	75	69	65	73	68	64	71	67	63	61			
5	83	72	64	59	81	71	64	58	69	63	58	67	62	57	65	61	57	55			
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	60	55	51	50			
7	73	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45			
8	68	56	49	44	67	56	49	44	54	48	43	53	47	43	52	47	43	41			
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	43	39	38			
10	61	49	42	37	59	48	41	37	47	41	37	46	41	37	46	40	36	35			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	71030
5°	70688
10°	69807
15°	68491
20°	66520
25°	63774
30°	58653
35°	50125
40°	40507
45°	31182
50°	24375
55°	20421
60°	18552
65°	16908
70°	15558
75°	14100
80°	12270
85°	10530



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.0	5.7
10°-20°	170.7	15.9
20°-30°	241.2	22.5
30°-40°	233.7	21.8
40°-50°	157.6	14.7
50°-60°	97.9	9.1
60°-70°	65.4	6.1
70°-80°	35.8	3.3
80°-90°	9.5	0.9
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°	472.9	44.1
0°-40°	706.6	65.9
0°-60°	962.1	89.7
0°-90°	1072.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1072.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	650	
5°	644	61
15°	606	171
25°	529	241
35°	376	234
45°	202	158
55°	107	98
65°	65	65
75°	33	36
85°	8	9
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	650.1
2.5°	650.1
5°	644.5
7.5°	637.5
10°	629.2
12.5°	620.8
15°	605.5
17.5°	593.0
20°	572.1
22.5°	551.2
25°	529.0
27.5°	498.3
30°	464.9
32.5°	421.8
35°	375.8
37.5°	329.9
40°	284.0
42.5°	238.0
45°	201.8
47.5°	168.4
50°	143.4
52.5°	122.5
55°	107.2
57.5°	94.7
60°	84.9
62.5°	75.2
65°	65.4
67.5°	57.1
70°	48.7
72.5°	41.8
75°	33.4
77.5°	26.4
80°	19.5
82.5°	13.9
85°	8.4
87.5°	2.8
90°	0.0



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— 0°-180°







(END OF REPORT)