

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: P274292

Luminaire Tested: **LD4B10DE010W2N2050 EU4B1020W2N902050 4LBW0MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P274292
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: LD4B10DE010W2N2050 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: 744.5 lumens
Efficiency: N/A
Efficacy: 53.2 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

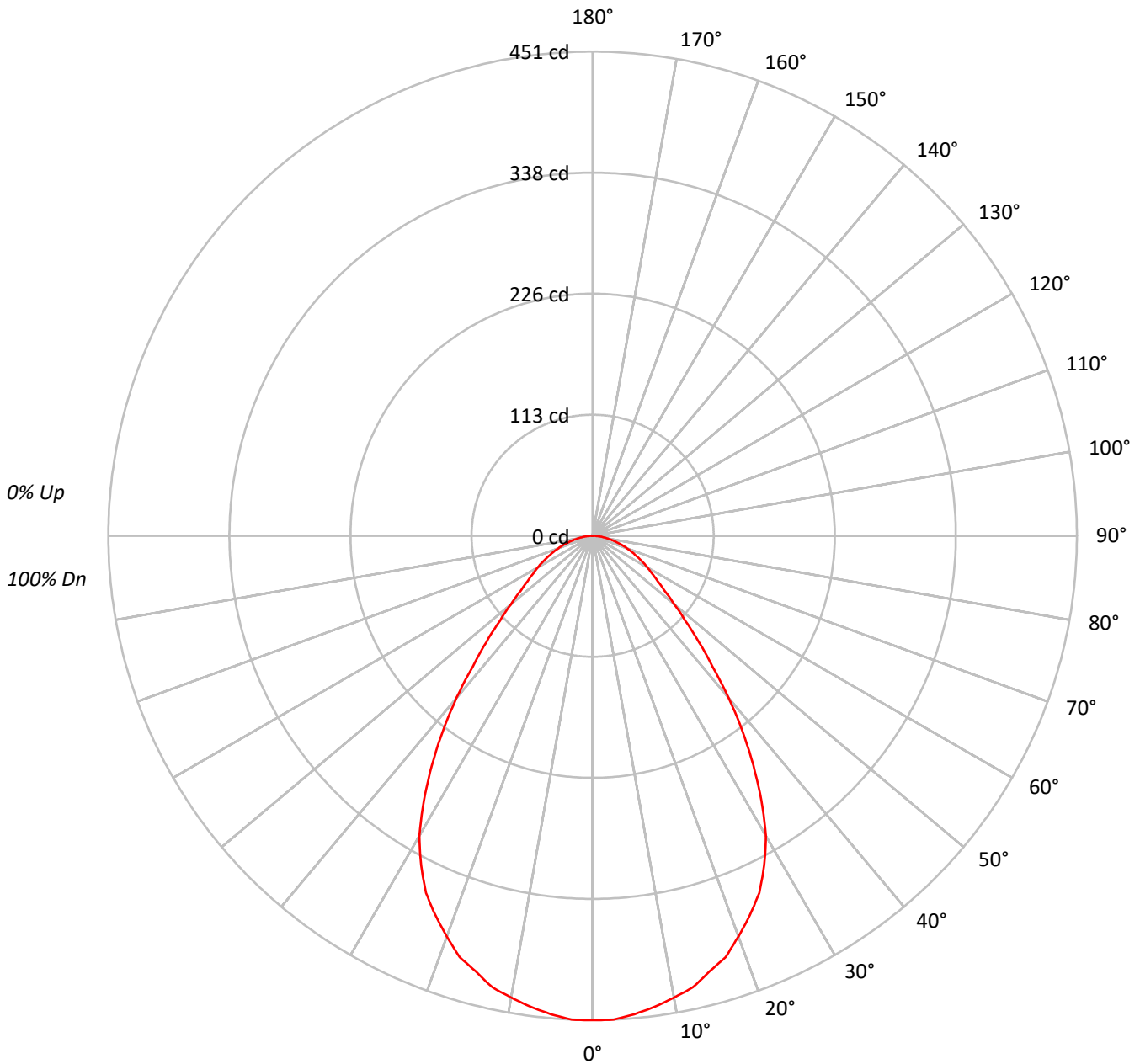
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	49298
5°	49059
10°	48450
15°	47531
20°	46172
25°	44256
30°	40713
35°	34786
40°	28112
45°	21648
50°	16913
55°	14172
60°	12871
65°	11737
70°	10798
75°	9794
80°	8494
85°	7271



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.4	5.7
10°-20°	118.5	15.9
20°-30°	167.4	22.5
30°-40°	162.2	21.8
40°-50°	109.4	14.7
50°-60°	67.9	9.1
60°-70°	45.4	6.1
70°-80°	24.8	3.3
80°-90°	6.6	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°	328.2	44.1
0°-40°	490.4	65.9
0°-60°	667.7	89.7
0°-90°	744.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	744.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	451	
5°	447	42
15°	420	118
25°	367	167
35°	261	162
45°	140	109
55°	74	68
65°	45	45
75°	23	25
85°	6	7
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	451.2
2.5°	451.2
5°	447.3
7.5°	442.5
10°	436.7
12.5°	430.9
15°	420.2
17.5°	411.5
20°	397.1
22.5°	382.6
25°	367.1
27.5°	345.9
30°	322.7
32.5°	292.7
35°	260.8
37.5°	229.0
40°	197.1
42.5°	165.2
45°	140.1
47.5°	116.9
50°	99.5
52.5°	85.0
55°	74.4
57.5°	65.7
60°	58.9
62.5°	52.2
65°	45.4
67.5°	39.6
70°	33.8
72.5°	29.0
75°	23.2
77.5°	18.4
80°	13.5
82.5°	9.7
85°	5.8
87.5°	1.9
90°	0.0



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— 0°-180°







(END OF REPORT)