

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: P274274

Luminaire Tested: **LD4B10DE010W2N2050 EU4B1020W2N902050 4LBM0H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P274274
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: LD4B10DE010W2N2050 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: 643.0 lumens
Efficiency: N/A
Efficacy: 45.9 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

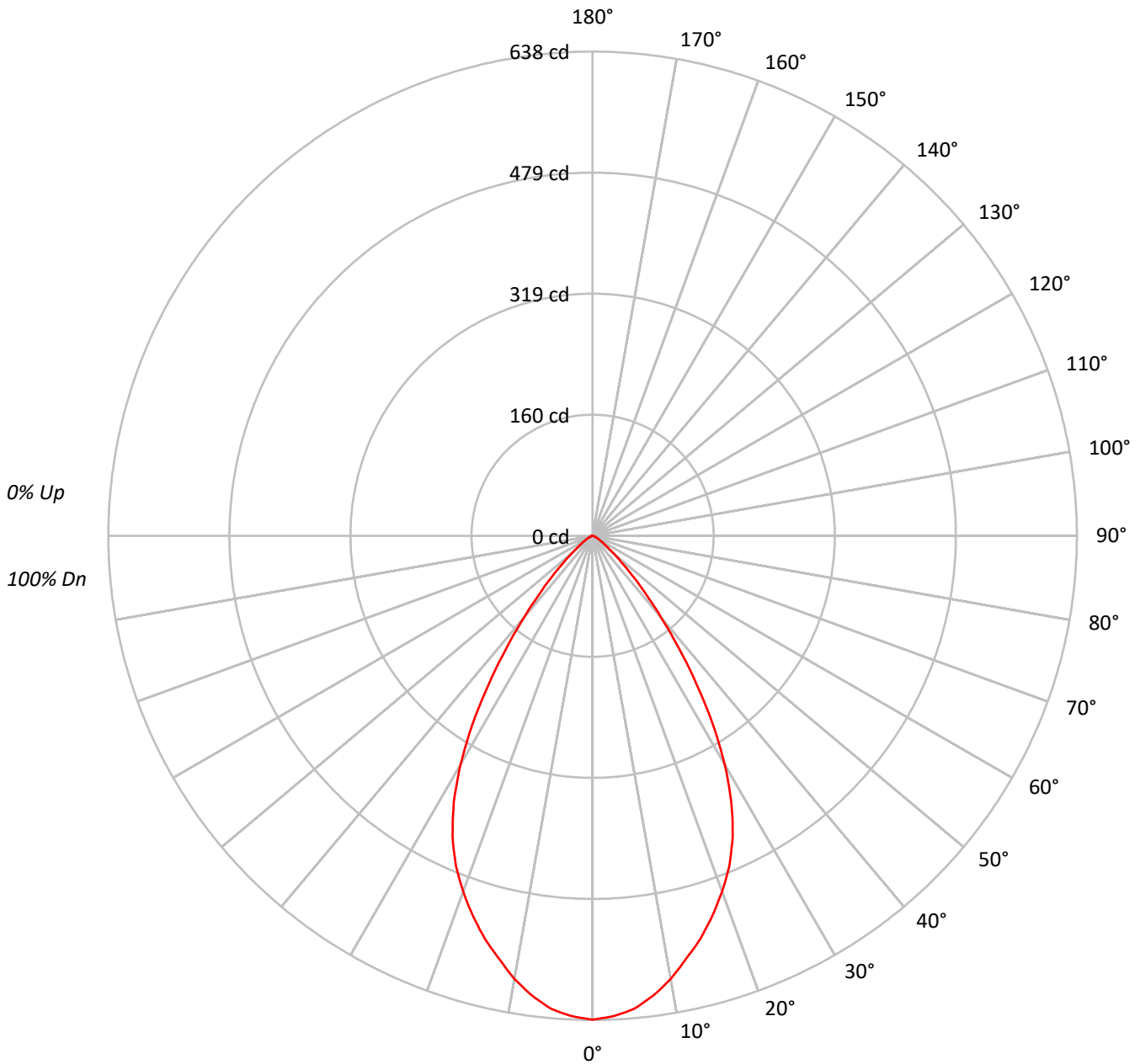
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93			93
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85			85
3	101	94	89	85	99	93	88	84	90	86	83	88	84	82	86	83	80	79			79
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	73			73
5	90	82	75	71	89	81	75	70	79	74	70	77	73	69	75	72	69	67			67
6	86	76	70	65	84	75	69	65	74	68	64	72	68	64	71	67	64	62			62
7	81	71	65	60	80	70	64	60	69	64	60	68	63	59	67	62	59	58			58
8	77	67	60	56	75	66	60	56	65	59	56	64	59	55	63	58	55	54			54
9	73	63	56	52	72	62	56	52	61	56	52	60	55	52	59	55	52	50			50
10	69	59	53	49	68	59	53	49	58	52	49	57	52	48	56	52	48	47			47

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	69665
5°	68648
10°	65780
15°	62134
20°	57997
25°	52647
30°	43955
35°	31838
40°	19925
45°	11403
50°	5932
55°	3334
60°	2120
65°	1267
70°	926
75°	422
80°	629
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.7	9.1
10°-20°	153.9	23.9
20°-30°	197.8	30.8
30°-40°	148.8	23.1
40°-50°	59.8	9.3
50°-60°	17.0	2.6
60°-70°	5.4	0.8
70°-80°	1.5	0.2
80°-90°	0.1	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°	410.4	63.8
0°-40°	559.2	87.0
0°-60°	636.0	98.9
0°-90°	643.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	643.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	638	
5°	626	59
15°	549	154
25°	437	198
35°	239	149
45°	74	60
55°	18	17
65°	5	5
75°	1	2
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	637.6
2.5°	633.7
5°	625.9
7.5°	611.4
10°	592.9
12.5°	570.6
15°	549.3
17.5°	525.0
20°	498.8
22.5°	470.7
25°	436.7
27.5°	395.9
30°	348.4
32.5°	295.0
35°	238.7
37.5°	186.3
40°	139.7
42.5°	102.9
45°	73.8
47.5°	50.5
50°	34.9
52.5°	24.3
55°	17.5
57.5°	12.6
60°	9.7
62.5°	6.8
65°	4.9
67.5°	3.9
70°	2.9
72.5°	1.9
75°	1.0
77.5°	1.0
80°	1.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)