

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: P274270

Luminaire Tested: **LD4B20DE010W2N2050 EU4B1020W2N902050 4LBM0LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P274270
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35290)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD4B20DE010W2N2050 EU4B1020W2N902050 4LBM0LI
Description: PORTFOLIO 4" W2N RN DOWNLIGHT, MEDIUM DISTRIBUTION WITH SPECULAR FINISH
Light Source: W2N 2000K-5000K CCT TUNING RANGE
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1432.5 lumens
Efficiency: N/A
Efficacy: 51.2 lumens/watt
Spacing Criteria (0/90/45): 0.7 / 0.7 / 0.76
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

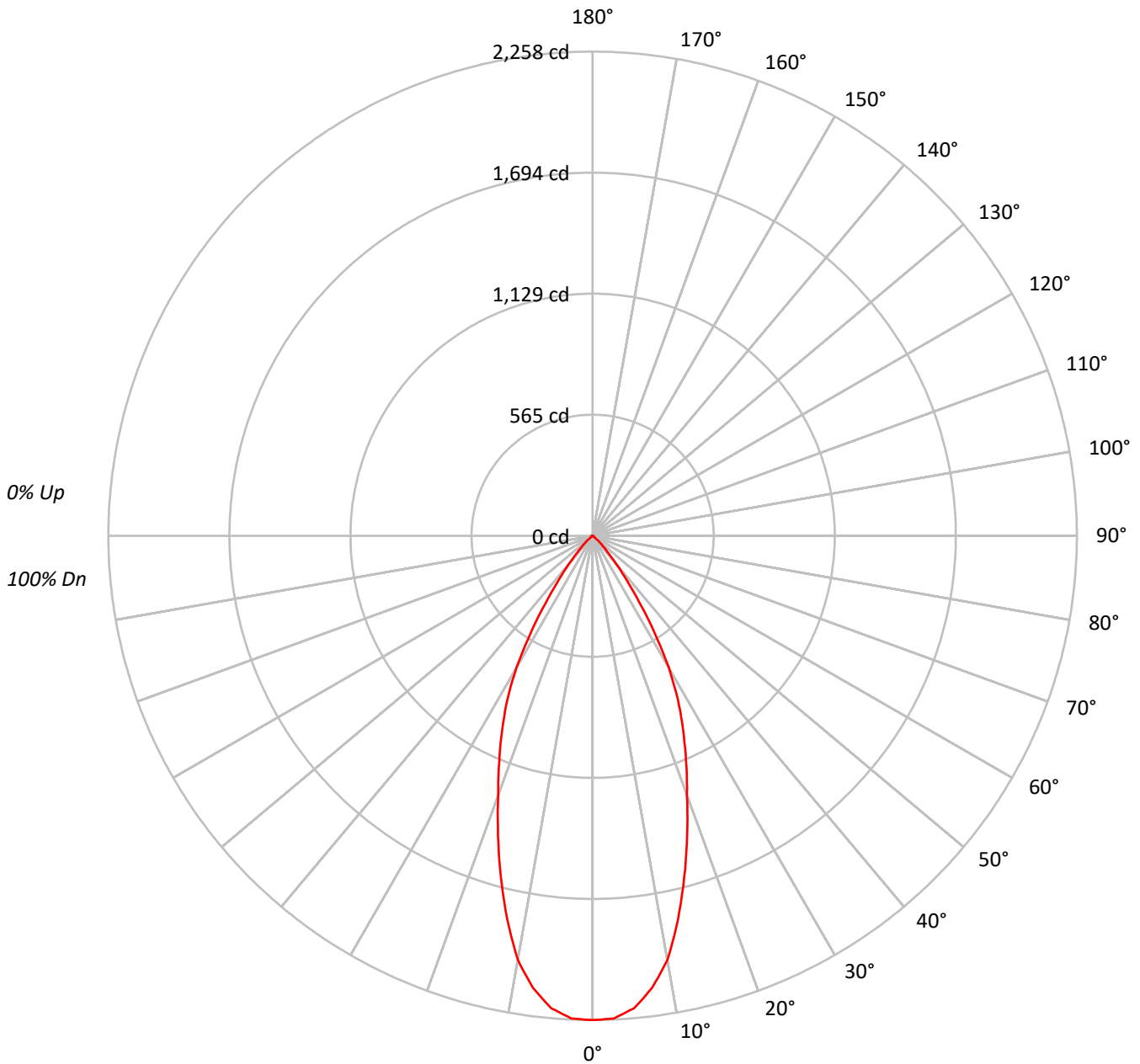
Input Watts (W): 28
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94			
2	109	104	100	97	107	102	99	96	99	96	94	96	94	92	94	92	90	88			
3	104	98	93	89	102	96	92	89	94	90	87	91	88	86	89	87	85	83			
4	99	92	87	83	97	91	86	82	89	85	81	87	83	80	85	82	79	78			
5	94	87	81	77	93	86	81	77	84	79	76	82	78	75	81	77	75	73			
6	90	82	76	72	89	81	76	72	80	75	71	78	74	71	77	73	71	69			
7	86	77	72	68	85	77	71	68	75	71	67	74	70	67	73	69	67	65			
8	82	73	68	64	81	73	67	64	72	67	64	71	66	63	70	66	63	62			
9	79	70	64	60	78	69	64	60	68	63	60	67	63	60	67	63	60	58			
10	75	66	61	57	74	66	61	57	65	60	57	64	60	57	64	60	57	56			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	246754
5°	242564
10°	222869
15°	186640
20°	149527
25°	120146
30°	89437
35°	51086
40°	23976
45°	10183
50°	3247
55°	1657
60°	1136
65°	905
70°	543
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.5	14.3
10°-20°	457.1	31.9
20°-30°	454.5	31.7
30°-40°	247.5	17.3
40°-50°	57.2	4.0
50°-60°	8.1	0.6
60°-70°	3.0	0.2
70°-80°	0.7	0.0
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°	1116.1	77.9
0°-40°	1363.6	95.2
0°-60°	1428.9	99.7
0°-90°	1432.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1432.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2258	
5°	2212	204
15°	1650	457
25°	997	454
35°	383	247
45°	66	57
55°	9	8
65°	4	3
75°	0	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2258.4
2.5°	2253.2
5°	2211.6
7.5°	2126.6
10°	2008.8
12.5°	1835.5
15°	1650.0
17.5°	1466.3
20°	1286.0
22.5°	1138.7
25°	996.6
27.5°	861.4
30°	708.9
32.5°	539.0
35°	383.0
37.5°	258.2
40°	168.1
42.5°	105.7
45°	65.9
47.5°	38.1
50°	19.1
52.5°	10.4
55°	8.7
57.5°	5.2
60°	5.2
62.5°	3.5
65°	3.5
67.5°	1.7
70°	1.7
72.5°	1.7
75°	0.0
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)