

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: P274282

Luminaire Tested: **LD4B20DE010W2N2050 EU4B1020W2N902050 4LBW0LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P274282
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35289)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD4B20DE010W2N2050 EU4B1020W2N902050 4LBW0LI
Description: PORTFOLIO 4" W2N RN DOWNLIGHT, WIDE DISTRIBUTION WITH SPECULAR FINISH
Light Source: W2N 2000K-5000K CCT TUNING RANGE
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1507.9 lumens
Efficiency: N/A
Efficacy: 53.9 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.18
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

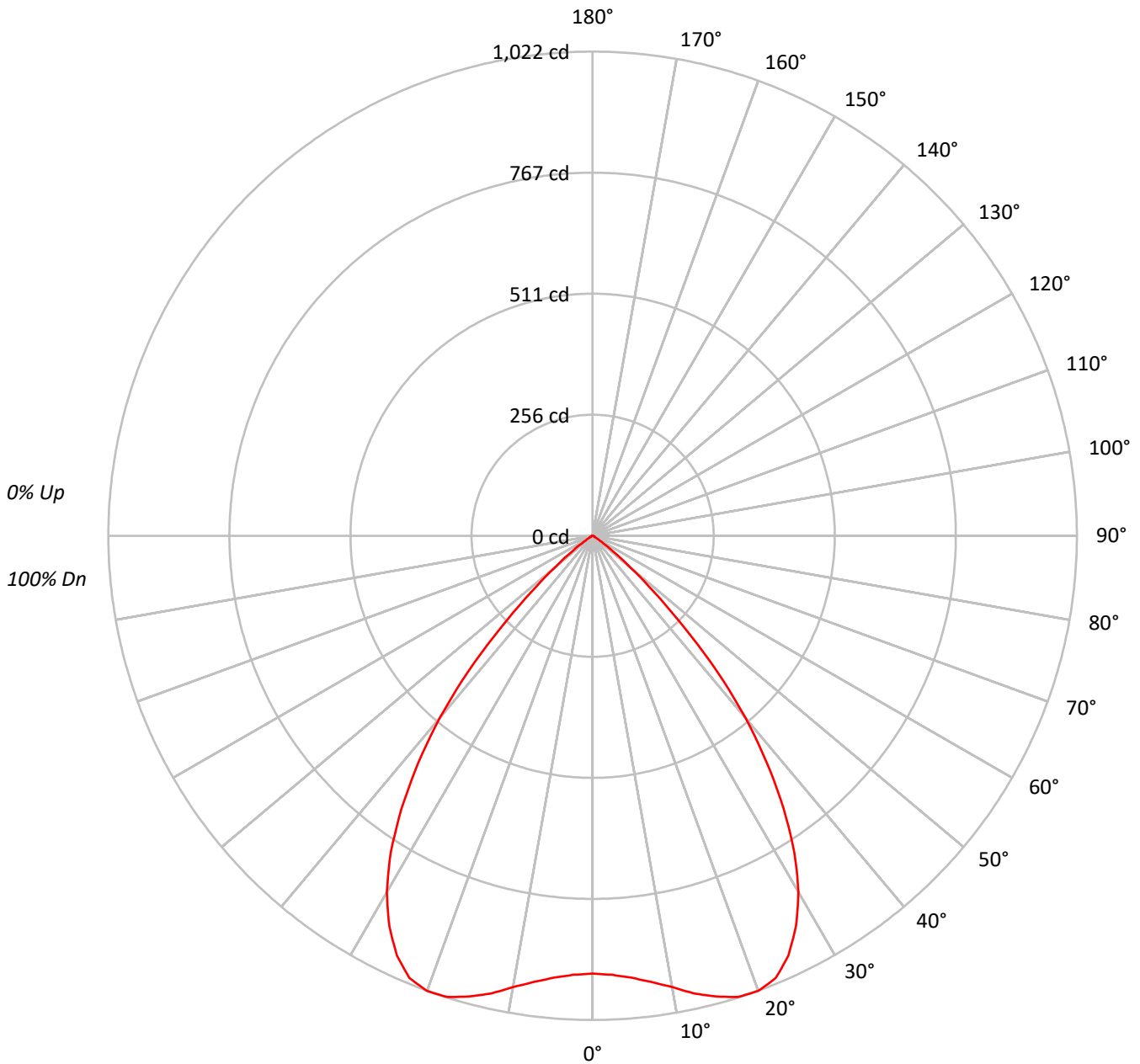
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P274282

CATALOG NUMBER: LD4B20DE010W2N2050 EU4B1020W2N902050 4LBW0LI

Luminous Intensity Polar Plot





TEST NUMBER: P274282

CATALOG NUMBER: LD4B20DE010W2N2050 EU4B1020W2N902050 4LBW0LI

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	100	100
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92	92	92	92
2	106	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84	84	84	84
3	100	93	87	83	98	92	86	82	89	85	81	86	83	80	84	81	78	77	77	77	77
4	94	86	79	75	92	84	79	74	82	77	73	80	76	72	78	75	72	70	70	70	70
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64	64	64	64
6	83	73	66	62	82	72	66	61	71	65	61	69	64	60	68	63	60	58	58	58	58
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	54	54	54	54
8	74	63	56	52	72	62	56	51	61	55	51	60	55	51	59	54	51	49	49	49	49
9	69	59	52	48	68	58	52	47	57	51	47	56	51	47	55	50	47	45	45	45	45
10	66	55	48	44	65	54	48	44	53	48	44	53	47	44	52	47	43	42	42	42	42

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	100946
5°	102659
10°	107296
15°	113884
20°	118877
25°	117843
30°	109598
35°	93755
40°	71429
45°	41890
50°	17899
55°	5258
60°	1508
65°	905
70°	543
75°	718
80°	0
85°	0



TEST NUMBER: P274282

CATALOG NUMBER: LD4B20DE010W2N2050 EU4B1020W2N902050 4LBW0LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.3	6.0
10°-20°	285.1	18.9
20°-30°	444.8	29.5
30°-40°	432.8	28.7
40°-50°	216.2	14.3
50°-60°	33.5	2.2
60°-70°	4.1	0.3
70°-80°	1.1	0.1
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°	820.3	54.4
0°-40°	1253.1	83.1
0°-60°	1502.7	99.7
0°-90°	1507.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1507.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	924	
5°	936	90
15°	1007	285
25°	978	445
35°	703	433
45°	271	216
55°	28	33
65°	4	4
75°	2	1
85°	0	0
90°	0	



TEST NUMBER: P274282

CATALOG NUMBER: LD4B20DE010W2N2050 EU4B1020W2N902050 4LBW0LI

CANDELA DISTRIBUTION (FULL):

0°	
0°	923.9
2.5°	927.4
5°	936.0
7.5°	949.8
10°	967.1
12.5°	989.6
15°	1006.8
17.5°	1020.7
20°	1022.4
22.5°	1010.3
25°	977.5
27.5°	929.1
30°	868.7
32.5°	792.7
35°	702.9
37.5°	604.4
40°	500.8
42.5°	390.3
45°	271.1
47.5°	174.4
50°	105.3
52.5°	57.0
55°	27.6
57.5°	12.1
60°	6.9
62.5°	5.2
65°	3.5
67.5°	3.5
70°	1.7
72.5°	1.7
75°	1.7
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)