

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: P274310

Luminaire Tested: **LD4B10DE010W2N2050 EU4B1020W2N902050 4LBCS0MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P274310
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35142)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD4B10DE010W2N2050 EU4B1020W2N902050 4LBCS0MW
Description: PORTFOLIO 4" W2N RN DOWNLIGHT, CAST SHALLOW WITH MATTE WHITE FINISH
Light Source: W2N 2000K-5000K CCT TUNING RANGE
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 863.0 lumens
Efficiency: N/A
Efficacy: 61.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.23 / 1.33
Luminous Opening: Circular (Dia: 0.38' x H: 0')
CIE Type: Direct

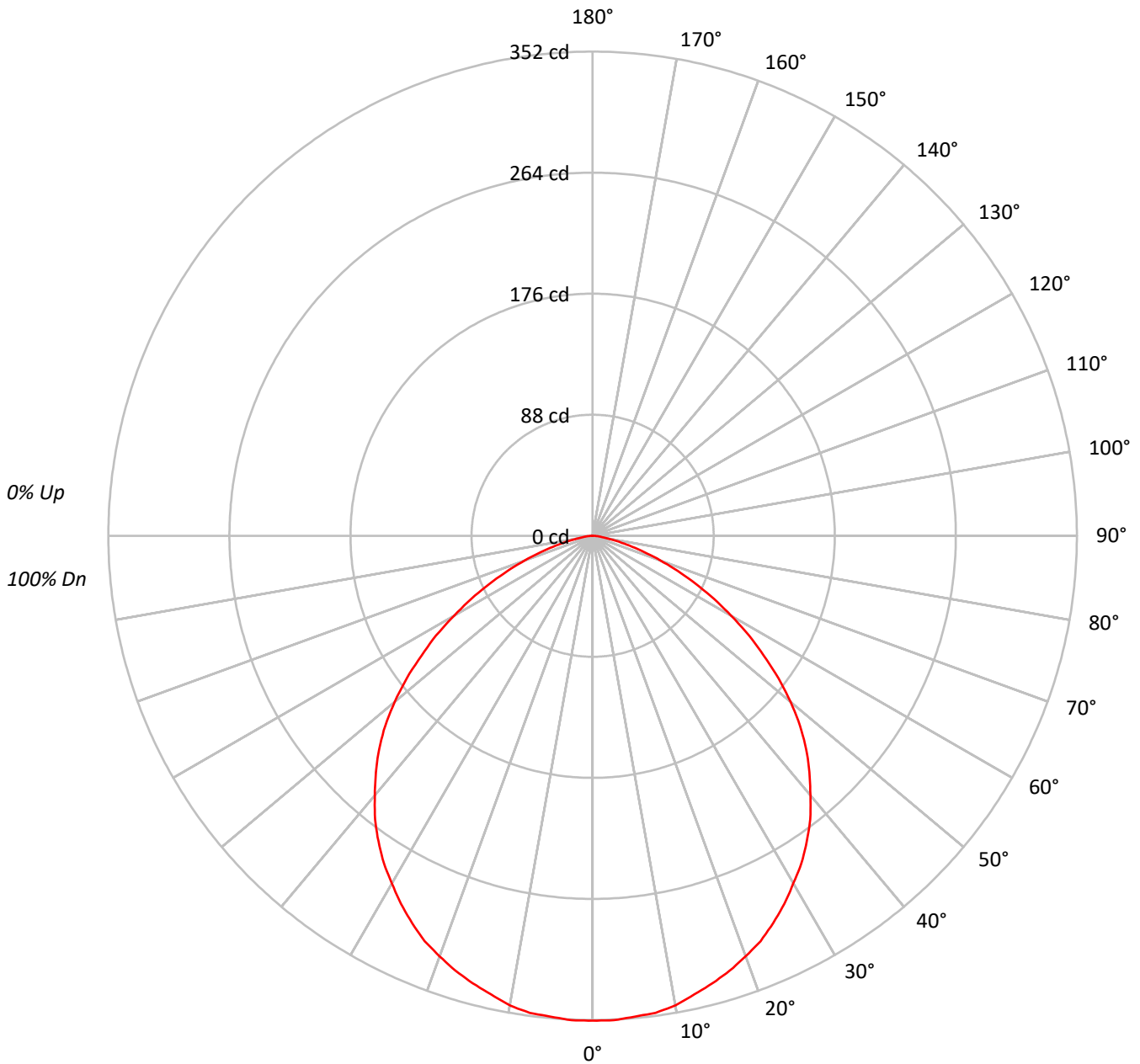
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P274310

CATALOG NUMBER: LD4B10DE010W2N2050 EU4B1020W2N902050 4LBCS0MW

Luminous Intensity Polar Plot





TEST NUMBER: P274310

CATALOG NUMBER: LD4B10DE010W2N2050 EU4B1020W2N902050 4LBCS0MW

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87				87
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74				74
3	93	83	75	70	90	81	74	69	79	73	68	76	71	67	73	69	65	63				63
4	85	74	66	60	83	73	65	59	70	64	58	68	62	58	66	61	57	55				55
5	79	66	58	52	77	65	57	51	63	56	51	61	55	50	60	54	50	48				48
6	73	60	52	45	71	59	51	45	57	50	45	56	49	44	54	49	44	42				42
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	50	44	39	37				37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	33				33
9	59	46	38	33	57	45	38	32	44	37	32	43	37	32	42	36	32	30				30
10	55	42	35	30	54	42	34	30	41	34	29	40	34	29	39	33	29	27				27

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	34354
5°	34329
10°	34310
15°	33982
20°	33738
25°	33400
30°	32838
35°	32290
40°	31335
45°	30267
50°	28459
55°	25776
60°	22630
65°	19048
70°	14903
75°	10430
80°	5893
85°	4137



TEST NUMBER: P274310

CATALOG NUMBER: LD4B10DE010W2N2050 EU4B1020W2N902050 4LBCS0MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.4	3.9
10°-20°	95.1	11.0
20°-30°	143.0	16.6
30°-40°	169.5	19.6
40°-50°	168.7	19.5
50°-60°	136.0	15.8
60°-70°	82.3	9.5
70°-80°	30.5	3.5
80°-90°	4.6	0.5
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°	271.5	31.5
0°-40°	441.0	51.1
0°-60°	745.6	86.4
0°-90°	863.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	863.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	352	
5°	351	33
15°	337	95
25°	311	143
35°	271	169
45°	220	169
55°	152	136
65°	83	82
75°	28	31
85°	4	5
90°	0	



TEST NUMBER: P274310

CATALOG NUMBER: LD4B10DE010W2N2050 EU4B1020W2N902050 4LBCS0MW

CANDELA DISTRIBUTION (FULL):

	0°
0°	352.5
2.5°	352.5
5°	350.9
7.5°	349.8
10°	346.7
12.5°	341.5
15°	336.8
17.5°	331.5
20°	325.3
22.5°	319.0
25°	310.6
27.5°	301.7
30°	291.8
32.5°	282.4
35°	271.4
37.5°	259.9
40°	246.3
42.5°	233.2
45°	219.6
47.5°	204.5
50°	187.7
52.5°	170.5
55°	151.7
57.5°	134.9
60°	116.1
62.5°	99.4
65°	82.6
67.5°	66.9
70°	52.3
72.5°	39.2
75°	27.7
77.5°	17.8
80°	10.5
82.5°	6.3
85°	3.7
87.5°	1.6
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)