

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: P274272

Luminaire Tested: **LD4B15DE010W2N2765 EU4B1020W2N902765 4LBM0H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P274272
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: LD4B15DE010W2N2765 EU4B1020W2N902765 4LBM0H
Description: PORTFOLIO 4" W2N RN DOWNLIGHT, MEDIUM DISTRIBUTION WITH HAZE FINISH
Light Source: W2N 2700K-6500K CCT TUNING RANGE
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1050.7 lumens
Efficiency: N/A
Efficacy: 47.8 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

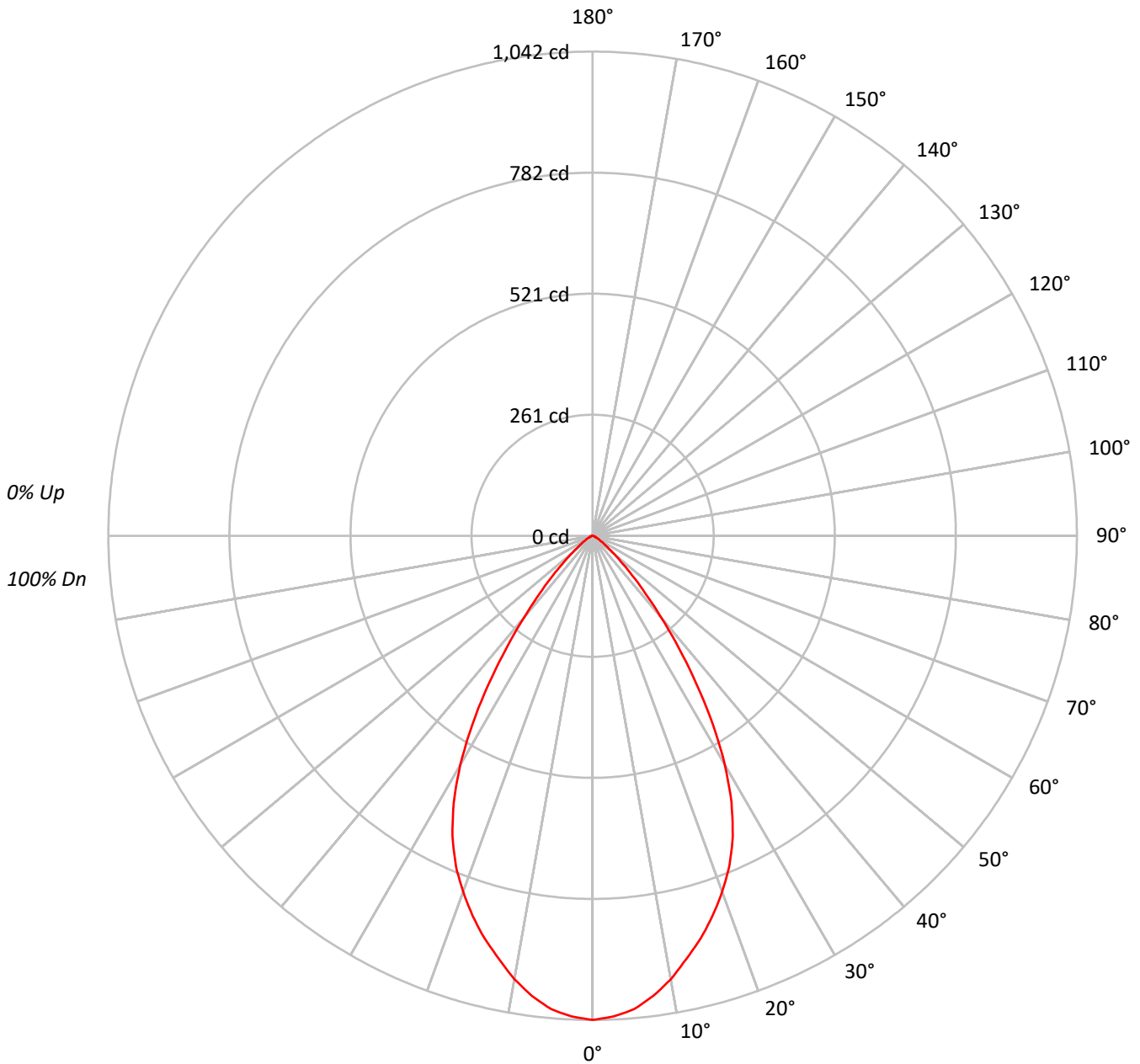
Input Watts (W): 22
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P274272

CATALOG NUMBER: LD4B15DE010W2N2765 EU4B1020W2N902765 4LBM0H

Luminous Intensity Polar Plot





TEST NUMBER: P274272

CATALOG NUMBER: LD4B15DE010W2N2765 EU4B1020W2N902765 4LBM0H

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	113839
5°	112190
10°	107496
15°	101532
20°	94774
25°	86029
30°	71825
35°	52033
40°	32577
45°	18619
50°	9706
55°	5429
60°	3474
65°	2042
70°	1533
75°	675
80°	1007
85°	0



TEST NUMBER: P274272

CATALOG NUMBER: LD4B15DE010W2N2765 EU4B1020W2N902765 4LBM0H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.9	9.1
10°-20°	251.5	23.9
20°-30°	323.2	30.8
30°-40°	243.2	23.1
40°-50°	97.7	9.3
50°-60°	27.7	2.6
60°-70°	8.8	0.8
70°-80°	2.5	0.2
80°-90°	0.2	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°	670.6	63.8
0°-40°	913.8	87.0
0°-60°	1039.2	98.9
0°-90°	1050.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1050.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1042	
5°	1023	96
15°	898	252
25°	714	323
35°	390	243
45°	120	98
55°	28	28
65°	8	9
75°	2	3
85°	0	0
90°	0	



TEST NUMBER: P274272

CATALOG NUMBER: LD4B15DE010W2N2765 EU4B1020W2N902765 4LBM0H

CANDELA DISTRIBUTION (FULL):

	0°
0°	1041.9
2.5°	1035.5
5°	1022.9
7.5°	999.1
10°	968.9
12.5°	932.5
15°	897.6
17.5°	857.9
20°	815.1
22.5°	769.1
25°	713.6
27.5°	647.0
30°	569.3
32.5°	482.1
35°	390.1
37.5°	304.5
40°	228.4
42.5°	168.1
45°	120.5
47.5°	82.5
50°	57.1
52.5°	39.6
55°	28.5
57.5°	20.6
60°	15.9
62.5°	11.1
65°	7.9
67.5°	6.3
70°	4.8
72.5°	3.2
75°	1.6
77.5°	1.6
80°	1.6
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)