

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: P274309

Luminaire Tested: **LD4B20DE010W2N2765 EU4B1020W2N902765 4LBCS0MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P274309
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: LD4B20DE010W2N2765 EU4B1020W2N902765 4LBCS0MW
Description: PORTFOLIO 4" W2N RN DOWNLIGHT, CAST SHALLOW WITH MATTE WHITE FINISH
Light Source: W2N 2700K-6500K CCT TUNING RANGE
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1714.6 lumens
Efficiency: N/A
Efficacy: 61.2 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

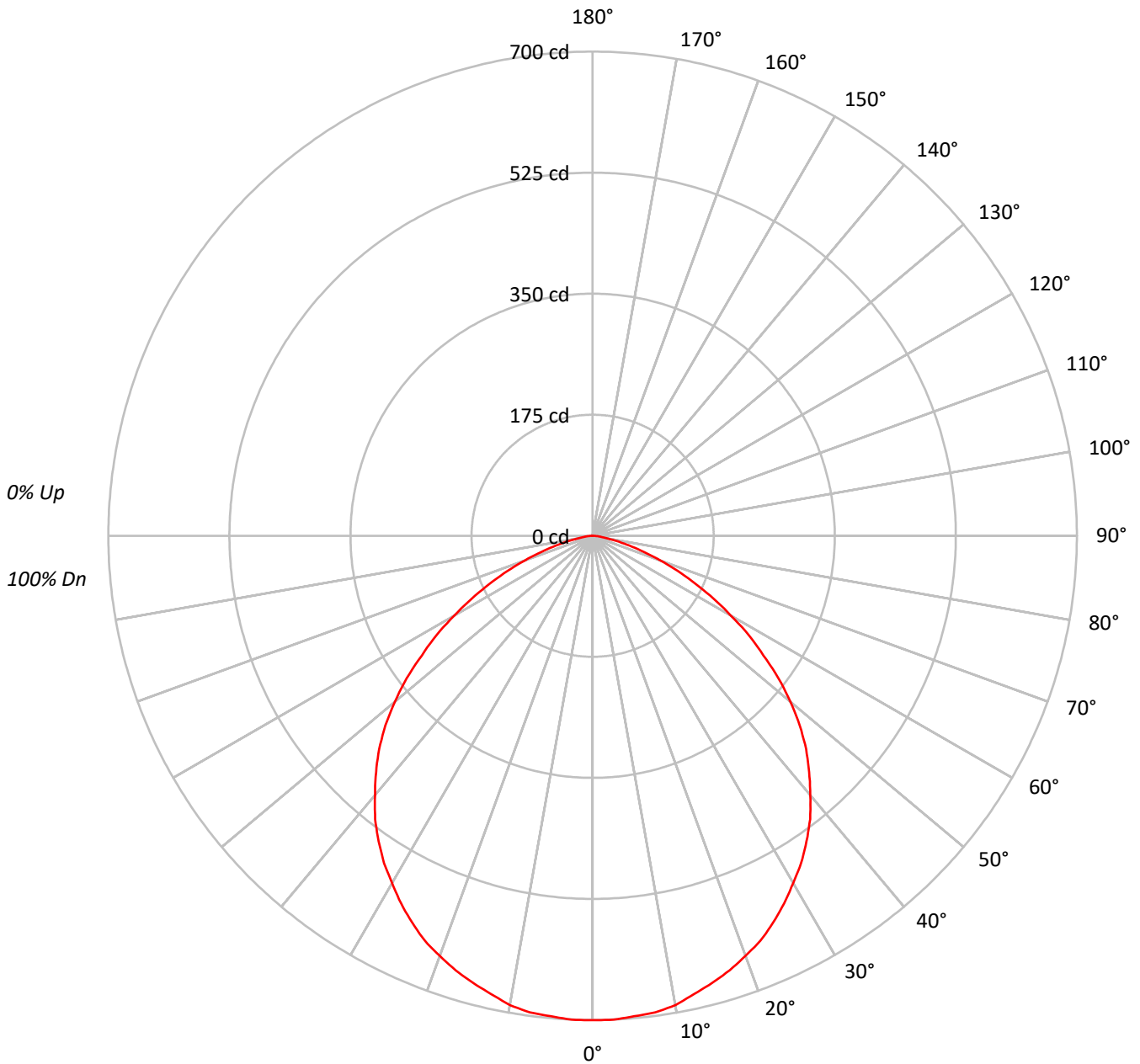
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P274309

CATALOG NUMBER: LD4B20DE010W2N2765 EU4B1020W2N902765 4LBCS0MW

Luminous Intensity Polar Plot





TEST NUMBER: P274309

CATALOG NUMBER: LD4B20DE010W2N2765 EU4B1020W2N902765 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°	68250
5°	68207
10°	68175
15°	67510
20°	67030
25°	66369
30°	65248
35°	64151
40°	62263
45°	60148
50°	56553
55°	51195
60°	44967
65°	37865
70°	29606
75°	20748
80°	11674
85°	8163



TEST NUMBER: P274309

CATALOG NUMBER: LD4B20DE010W2N2765 EU4B1020W2N902765 4LBCS0MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.3	3.9
10°-20°	188.9	11.0
20°-30°	284.2	16.6
30°-40°	336.8	19.6
40°-50°	335.1	19.5
50°-60°	270.2	15.8
60°-70°	163.4	9.5
70°-80°	60.7	3.5
80°-90°	9.1	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°	539.4	31.5
0°-40°	876.2	51.1
0°-60°	1481.4	86.4
0°-90°	1714.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1714.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	700	
5°	697	66
15°	669	189
25°	617	284
35°	539	337
45°	436	335
55°	301	270
65°	164	163
75°	55	61
85°	7	9
90°	0	



TEST NUMBER: P274309

CATALOG NUMBER: LD4B20DE010W2N2765 EU4B1020W2N902765 4LBCS0MW

CANDELA DISTRIBUTION (FULL):

	0°
0°	700.3
2.5°	700.3
5°	697.2
7.5°	695.1
10°	688.9
12.5°	678.5
15°	669.1
17.5°	658.7
20°	646.3
22.5°	633.8
25°	617.2
27.5°	599.5
30°	579.8
32.5°	561.1
35°	539.2
37.5°	516.4
40°	489.4
42.5°	463.4
45°	436.4
47.5°	406.2
50°	373.0
52.5°	338.7
55°	301.3
57.5°	268.1
60°	230.7
62.5°	197.4
65°	164.2
67.5°	133.0
70°	103.9
72.5°	77.9
75°	55.1
77.5°	35.3
80°	20.8
82.5°	12.5
85°	7.3
87.5°	3.1
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)