

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: P274308

Luminaire Tested: **LD4B15DE010W2N2765 EU4B1020W2N902765 4LBCS0MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P274308
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: LD4B15DE010W2N2765 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: 1410.3 lumens
Efficiency: N/A
Efficacy: 64.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.23 / 1.33
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

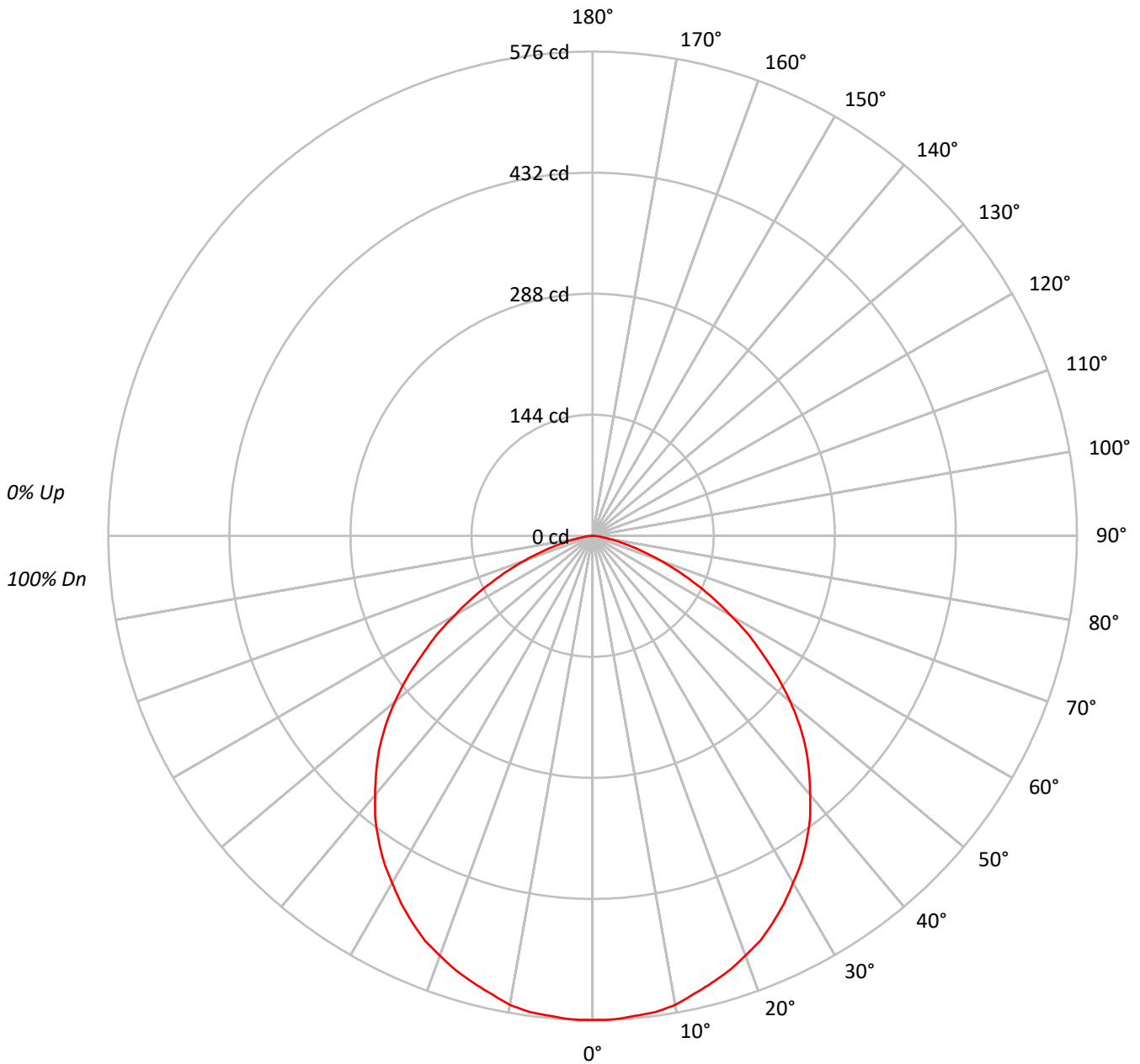
Input Watts (W): 22
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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°	37579
5°	37552
10°	37536
15°	37168
20°	36901
25°	36540
30°	35919
35°	35322
40°	34279
45°	33114
50°	31139
55°	28186
60°	24752
65°	20840
70°	16309
75°	11419
80°	6425
85°	4491



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.6	3.9
10°-20°	155.4	11.0
20°-30°	233.7	16.6
30°-40°	277.0	19.6
40°-50°	275.6	19.5
50°-60°	222.2	15.8
60°-70°	134.4	9.5
70°-80°	49.9	3.5
80°-90°	7.5	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°	443.6	31.5
0°-40°	720.6	51.1
0°-60°	1218.4	86.4
0°-90°	1410.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1410.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	576	
5°	573	55
15°	550	155
25°	508	234
35°	444	277
45°	359	276
55°	248	222
65°	135	134
75°	45	50
85°	6	7
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	576.0
2.5°	576.0
5°	573.4
7.5°	571.7
10°	566.6
12.5°	558.0
15°	550.3
17.5°	541.8
20°	531.5
22.5°	521.3
25°	507.6
27.5°	493.1
30°	476.8
32.5°	461.5
35°	443.5
37.5°	424.7
40°	402.5
42.5°	381.1
45°	358.9
47.5°	334.1
50°	306.8
52.5°	278.6
55°	247.8
57.5°	220.5
60°	189.7
62.5°	162.4
65°	135.0
67.5°	109.4
70°	85.5
72.5°	64.1
75°	45.3
77.5°	29.1
80°	17.1
82.5°	10.3
85°	6.0
87.5°	2.6
90°	0.0



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— 0°-180°







(END OF REPORT)