

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: P274302

Luminaire Tested: **LD4B15DE010W2N2765 EU4B1020W2N902765 4LBS0H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P274302
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35136)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD4B15DE010W2N2765 EU4B1020W2N902765 4LBS0H
Description: PORTFOLIO 4" W2N RN DOWNLIGHT, SHALLOW WITH HAZE FINISH
Light Source: W2N 2700K-6500K CCT TUNING RANGE
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1327.2 lumens
Efficiency: N/A
Efficacy: 60.3 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.17
Luminous Opening: Circular (Dia: 0.38' x H: 0')
CIE Type: Direct

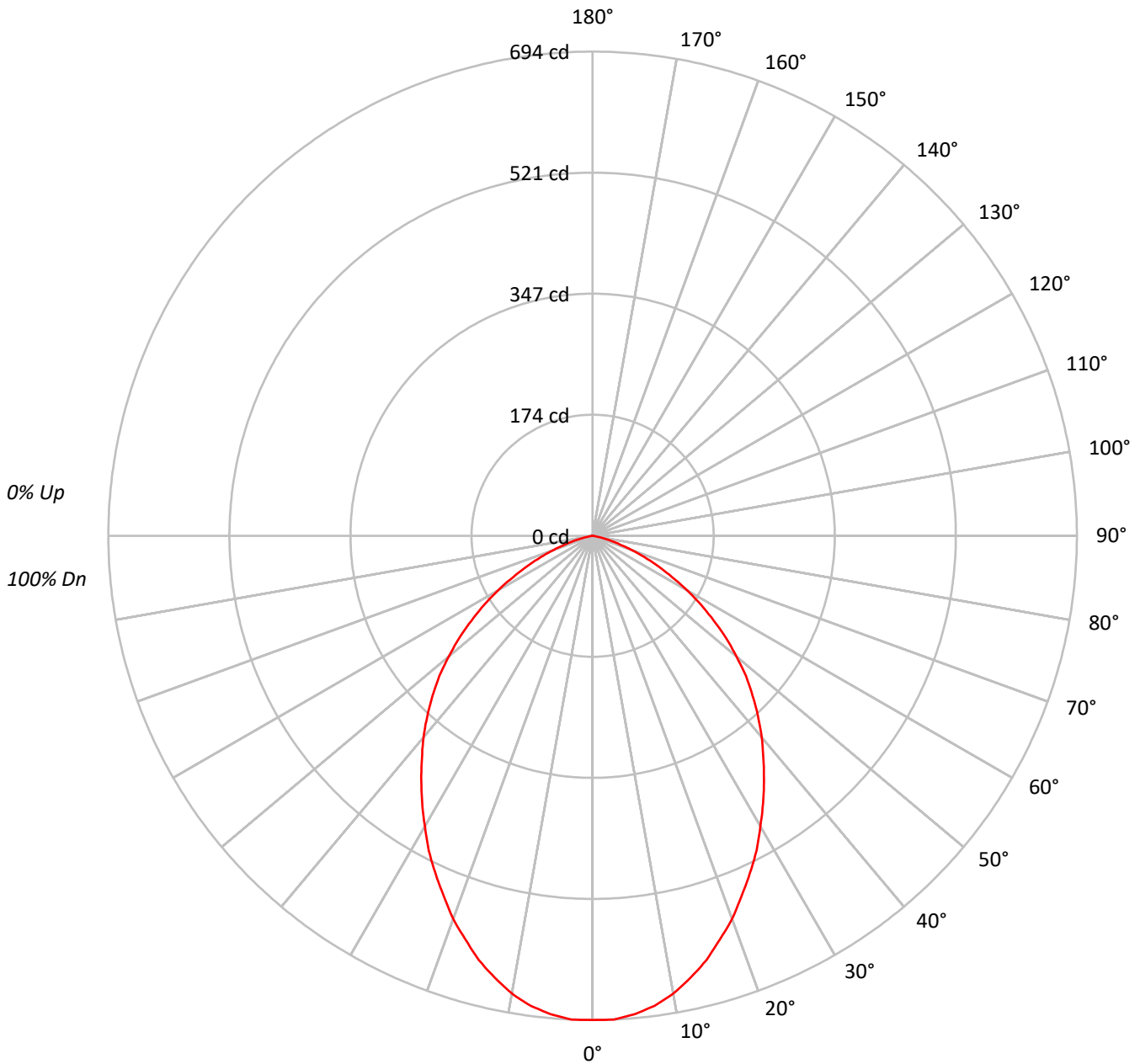
Input Watts (W): 22
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
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			
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88			
2	102	96	90	85	100	94	88	84	90	86	82	87	83	80	84	81	79	77			
3	95	85	78	73	92	84	77	72	81	75	71	78	74	70	76	72	69	67			
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	58			
5	81	69	61	55	79	68	61	55	66	60	55	64	59	54	63	58	53	51			
6	75	63	55	49	73	62	54	49	60	54	49	59	53	48	57	52	48	46			
7	70	58	50	44	68	57	49	44	55	49	44	54	48	43	53	47	43	41			
8	65	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	37			
9	61	49	41	36	60	48	41	36	47	40	36	46	40	36	45	40	35	34			
10	58	45	38	33	56	45	38	33	44	37	33	43	37	33	42	37	33	31			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	67646
5°	67337
10°	65948
15°	63544
20°	60620
25°	57358
30°	54107
35°	50945
40°	47963
45°	44711
50°	40770
55°	36005
60°	30485
65°	23937
70°	17068
75°	9338
80°	1628
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.0	4.9
10°-20°	176.7	13.3
20°-30°	245.4	18.5
30°-40°	267.8	20.2
40°-50°	249.8	18.8
50°-60°	189.6	14.3
60°-70°	103.9	7.8
70°-80°	28.6	2.2
80°-90°	0.4	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°	487.2	36.7
0°-40°	755.0	56.9
0°-60°	1194.4	90.0
0°-90°	1327.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1327.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	694	
5°	688	65
15°	630	177
25°	533	245
35°	428	268
45°	324	250
55°	212	190
65°	104	104
75°	25	29
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	694.1
2.5°	694.1
5°	688.3
7.5°	679.5
10°	666.4
12.5°	648.8
15°	629.8
17.5°	606.5
20°	584.5
22.5°	558.2
25°	533.4
27.5°	508.6
30°	480.8
32.5°	454.5
35°	428.2
37.5°	401.9
40°	377.0
42.5°	350.7
45°	324.4
47.5°	298.1
50°	268.9
52.5°	241.1
55°	211.9
57.5°	184.1
60°	156.4
62.5°	128.6
65°	103.8
67.5°	80.4
70°	59.9
72.5°	40.9
75°	24.8
77.5°	11.7
80°	2.9
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)