

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: P274260

Luminaire Tested: **LD4B15DE010W2N2765 EU4B1020W2N902765 4LBN0H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P274260
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1808-906-1)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD4B15DE010W2N2765 EU4B1020W2N902765 4LBN0H
Description: PORTFOLIO 4" W2N RN DOWNLIGHT, NARROW DISTRIBUTION WITH HAZE FINISH
Light Source: W2N 2700K-6500K CCT TUNING RANGE
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 871.0 lumens
Efficiency: N/A
Efficacy: 39.6 lumens/watt
Spacing Criteria (0/90/45): 0.77 / 0.77 / 0.82
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

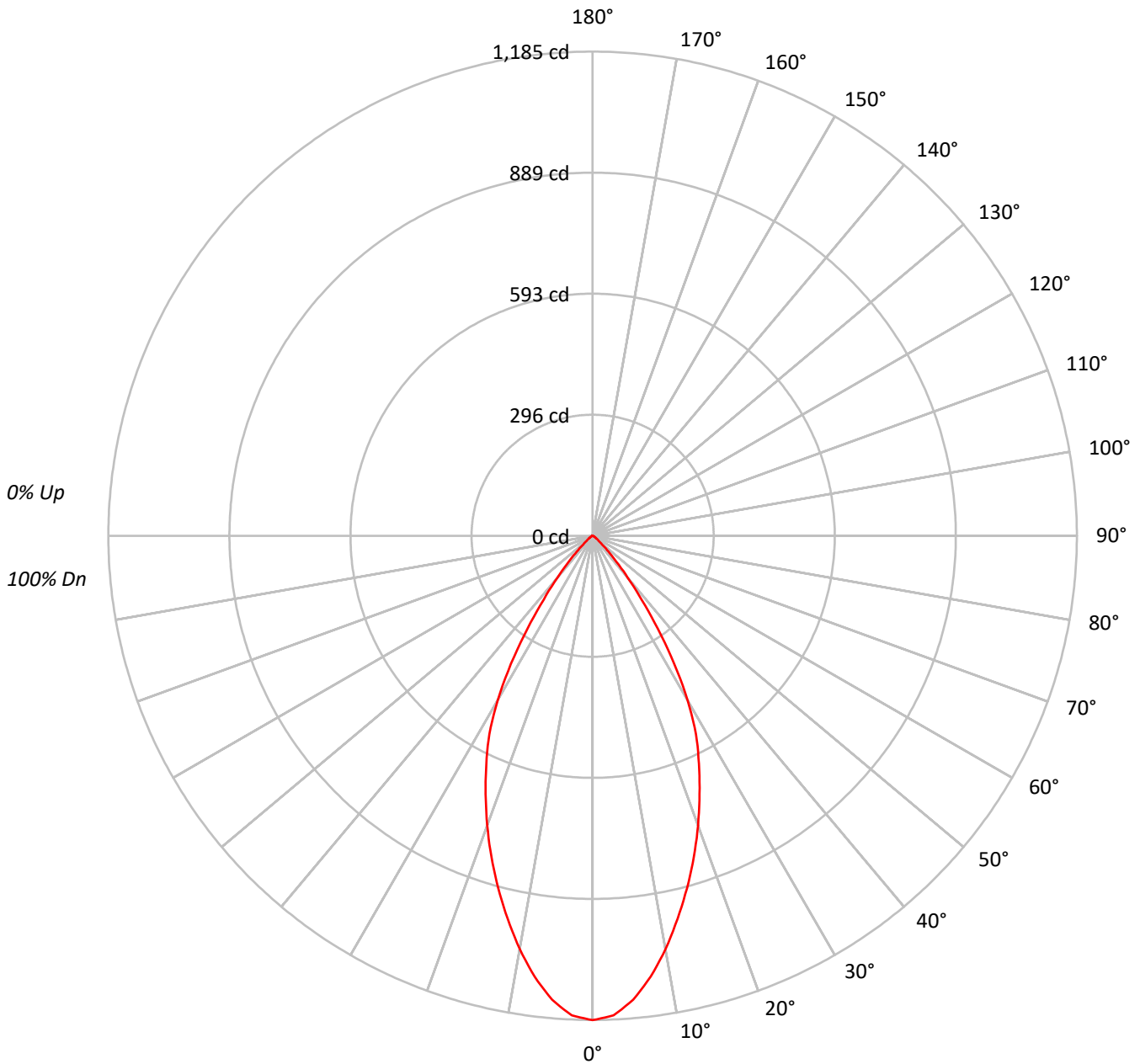
Input Watts (W): 22
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	114	111	108	106	111	109	107	105	105	103	101	101	100	98	98	97	96	94			
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87			
3	103	97	92	88	101	95	91	87	93	89	86	90	87	84	88	85	83	81			
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	78	76			
5	93	85	79	75	91	84	78	74	82	77	74	80	76	73	79	75	73	71			
6	88	80	74	70	87	79	73	69	77	73	69	76	72	68	75	71	68	67			
7	84	75	69	65	83	74	69	65	73	68	65	72	67	64	71	67	64	62			
8	80	71	65	61	79	70	65	61	69	64	61	68	64	60	67	63	60	59			
9	76	67	61	57	75	67	61	57	66	61	57	65	60	57	64	60	57	55			
10	73	64	58	54	72	63	58	54	62	57	54	62	57	54	61	57	54	52			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	129518
5°	125044
10°	113986
15°	100966
20°	87670
25°	74190
30°	58679
35°	36974
40°	19027
45°	8406
50°	3298
55°	1981
60°	1136
65°	672
70°	415
75°	549
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.2	12.1
10°-20°	248.9	28.6
20°-30°	280.5	32.2
30°-40°	175.7	20.2
40°-50°	47.0	5.4
50°-60°	9.9	1.1
60°-70°	3.0	0.3
70°-80°	0.9	0.1
80°-90°	0.0	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°	634.5	72.9
0°-40°	810.2	93.0
0°-60°	867.1	99.6
0°-90°	871.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	871.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1185	
5°	1140	105
15°	893	249
25°	615	280
35°	277	176
45°	54	47
55°	10	10
65°	3	3
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1185.4
2.5°	1175.1
5°	1140.1
7.5°	1088.3
10°	1027.4
12.5°	960.0
15°	892.6
17.5°	824.0
20°	754.0
22.5°	684.0
25°	615.4
27.5°	548.0
30°	465.1
32.5°	371.8
35°	277.2
37.5°	196.9
40°	133.4
42.5°	86.8
45°	54.4
47.5°	31.1
50°	19.4
52.5°	14.3
55°	10.4
57.5°	7.8
60°	5.2
62.5°	3.9
65°	2.6
67.5°	2.6
70°	1.3
72.5°	1.3
75°	1.3
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)