

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: P274285

Luminaire Tested: **LD4B20DE010W2N2765 EU4B1020W2N902765 4LBW0H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P274285
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35167)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD4B20DE010W2N2765 EU4B1020W2N902765 4LBW0H
Description: PORTFOLIO 4" W2N RN DOWNLIGHT, WIDE DISTRIBUTION WITH HAZE FINISH
Light Source: W2N 2700K-6500K CCT TUNING RANGE
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1412.0 lumens
Efficiency: N/A
Efficacy: 50.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.13
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

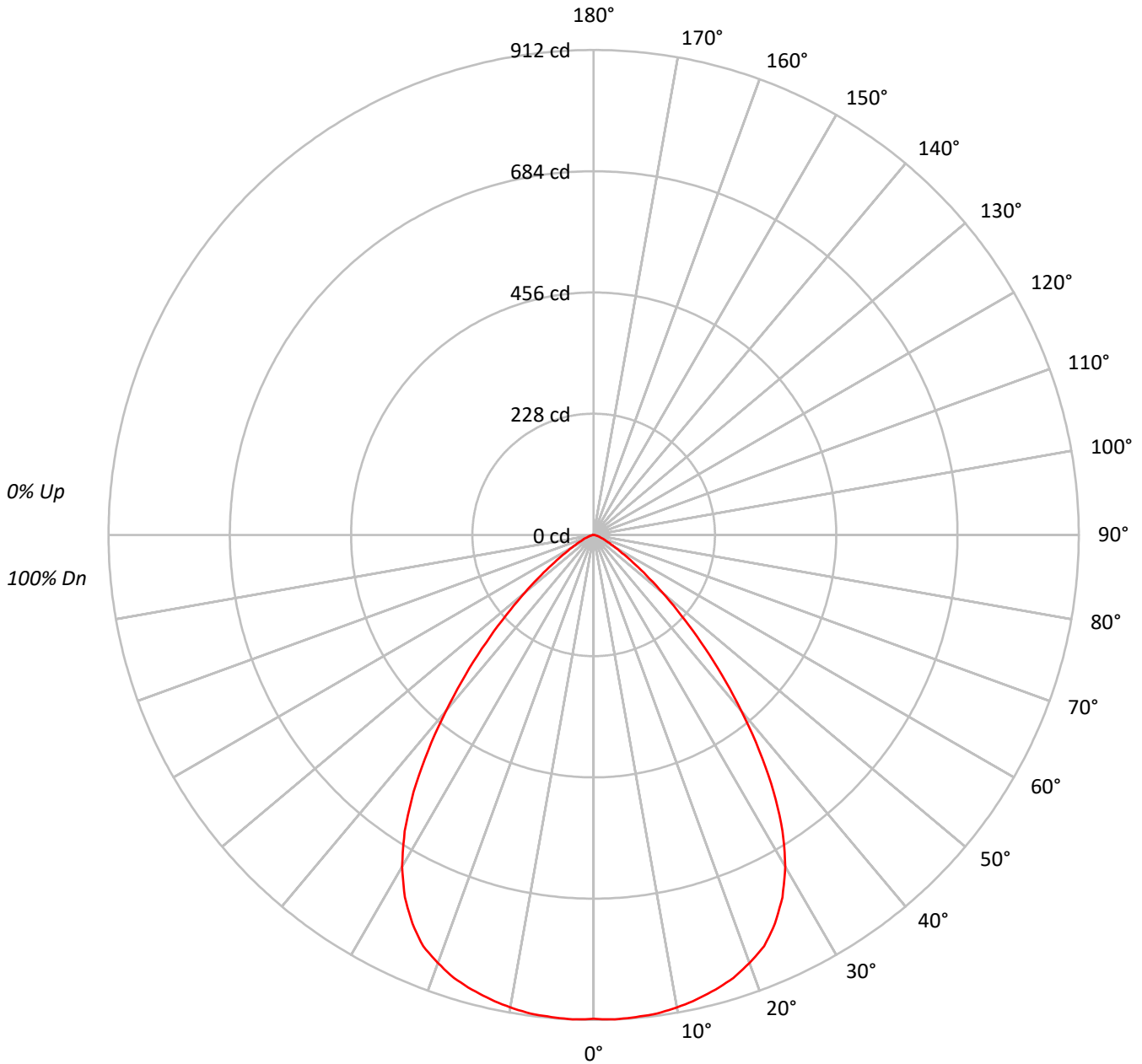
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91																			
2	105	100	95	91	103	98	93	90	95	91	88	91	88	86	89	86	84	82																			
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74																			
4	92	83	77	72	90	82	76	71	80	75	70	78	73	70	76	72	69	67																			
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	62	61																			
6	81	71	64	58	80	70	63	58	68	62	58	67	61	57	65	61	57	55																			
7	76	65	58	53	75	65	58	53	63	57	53	62	56	52	61	56	52	50																			
8	72	60	53	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46																			
9	68	56	49	45	66	56	49	45	55	49	44	54	48	44	53	48	44	43																			
10	64	52	46	41	63	52	46	41	51	45	41	50	45	41	49	44	41	39																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	99438
5°	99818
10°	100118
15°	100129
20°	99588
25°	97240
30°	90888
35°	78709
40°	61488
45°	44115
50°	28659
55°	17163
60°	10052
65°	6437
70°	4281
75°	3251
80°	2391
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.7	6.1
10°-20°	249.7	17.7
20°-30°	368.5	26.1
30°-40°	363.7	25.8
40°-50°	222.6	15.8
50°-60°	85.3	6.0
60°-70°	26.7	1.9
70°-80°	7.8	0.6
80°-90°	1.0	0.1
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°	704.9	49.9
0°-40°	1068.6	75.7
0°-60°	1376.5	97.5
0°-90°	1412.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1412.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	910	
5°	910	87
15°	885	250
25°	807	369
35°	590	364
45°	286	223
55°	90	85
65°	25	27
75°	8	8
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	910.1
2.5°	912.0
5°	910.1
7.5°	908.2
10°	902.4
12.5°	894.8
15°	885.2
17.5°	873.7
20°	856.5
22.5°	837.3
25°	806.6
27.5°	768.3
30°	720.4
32.5°	661.0
35°	590.1
37.5°	511.6
40°	431.1
42.5°	356.4
45°	285.5
47.5°	222.3
50°	168.6
52.5°	124.5
55°	90.1
57.5°	63.2
60°	46.0
62.5°	34.5
65°	24.9
67.5°	19.2
70°	13.4
72.5°	9.6
75°	7.7
77.5°	3.8
80°	3.8
82.5°	1.9
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)