

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: P274297

Luminaire Tested: **LD4B20DE010W2N2765 EU4B1020W2N902765 4LBS0LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P274297
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35292)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD4B20DE010W2N2765 EU4B1020W2N902765 4LBS0LI
Description: PORTFOLIO 4" W2N RN DOWNLIGHT, SHALLOW WITH SPECULAR FINISH
Light Source: W2N 2700K-6500K CCT TUNING RANGE
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1664.1 lumens
Efficiency: N/A
Efficacy: 59.4 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 1
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

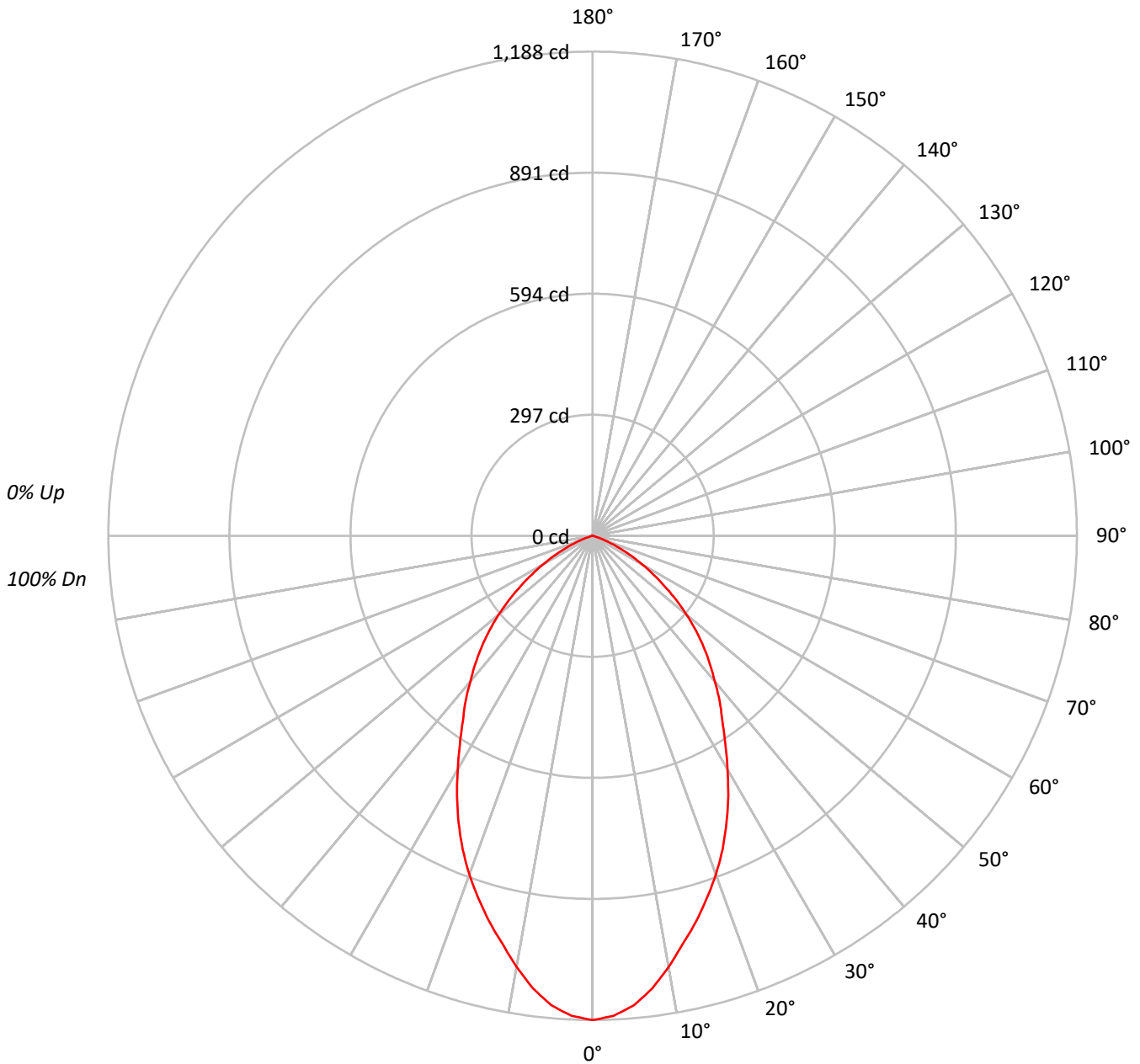
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90
2	104	98	93	88	102	96	91	87	93	89	85	90	86	84	87	84	82	80
3	97	89	82	77	95	87	81	77	84	79	75	82	78	74	79	76	73	71
4	90	81	73	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63
5	84	73	66	61	82	72	65	60	70	64	60	69	63	59	67	62	59	57
6	79	67	60	54	77	66	59	54	65	58	54	63	58	53	62	57	53	51
7	74	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46
8	69	57	50	45	68	57	50	45	55	49	45	54	49	44	53	48	44	42
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	36

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	129824
5°	126887
10°	119156
15°	110864
20°	102820
25°	93720
30°	83445
35°	73961
40°	66480
45°	59489
50°	51045
55°	41051
60°	30593
65°	19519
70°	9424
75°	1562
80°	1133
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.7	6.5
10°-20°	274.8	16.5
20°-30°	356.1	21.4
30°-40°	348.9	21.0
40°-50°	295.7	17.8
50°-60°	193.9	11.6
60°-70°	77.9	4.7
70°-80°	8.9	0.5
80°-90°	0.2	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°	738.6	44.4
0°-40°	1087.5	65.3
0°-60°	1577.1	94.8
0°-90°	1664.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1664.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1188	
5°	1157	108
15°	980	275
25°	777	356
35°	554	349
45°	385	296
55°	216	194
65°	76	78
75°	4	9
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1188.2
2.5°	1179.0
5°	1156.9
7.5°	1120.1
10°	1074.0
12.5°	1024.3
15°	980.1
17.5°	932.2
20°	884.3
22.5°	832.7
25°	777.4
27.5°	720.3
30°	661.4
32.5°	606.1
35°	554.5
37.5°	512.1
40°	466.1
42.5°	425.6
45°	385.0
47.5°	342.7
50°	300.3
52.5°	257.9
55°	215.5
57.5°	176.9
60°	140.0
62.5°	106.9
65°	75.5
67.5°	49.7
70°	29.5
72.5°	12.9
75°	3.7
77.5°	1.8
80°	1.8
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)