

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: P274288

Luminaire Tested: **LD4B20DE010W2N2050 EU4B1020W2N902050 4LBW0H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P274288
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: LD4B20DE010W2N2050 EU4B1020W2N902050 4LBW0H
Description: PORTFOLIO 4" W2N RN DOWNLIGHT, WIDE DISTRIBUTION WITH HAZE FINISH
Light Source: W2N 2000K-5000K CCT TUNING RANGE
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1266.6 lumens
Efficiency: N/A
Efficacy: 45.2 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

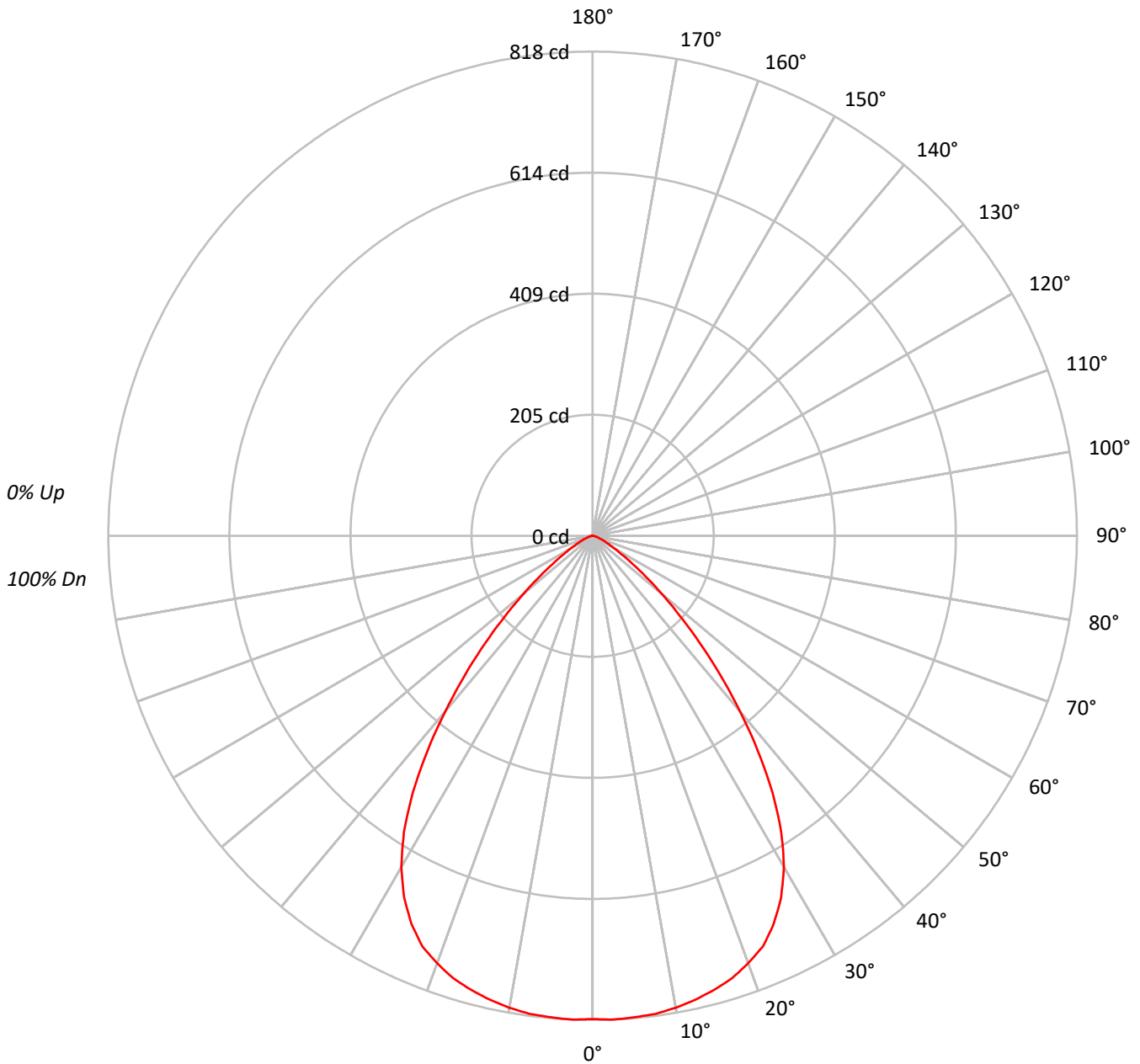
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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	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°	89200
5°	89541
10°	89822
15°	89825
20°	89332
25°	87234
30°	81539
35°	70613
40°	55155
45°	39572
50°	25718
55°	15392
60°	9025
65°	5765
70°	3833
75°	2913
80°	2139
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.7	6.1
10°-20°	224.0	17.7
20°-30°	330.6	26.1
30°-40°	326.2	25.8
40°-50°	199.7	15.8
50°-60°	76.5	6.0
60°-70°	23.9	1.9
70°-80°	7.0	0.6
80°-90°	0.9	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°	632.4	49.9
0°-40°	958.6	75.7
0°-60°	1234.8	97.5
0°-90°	1266.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1266.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	816	
5°	816	78
15°	794	224
25°	724	331
35°	529	326
45°	256	200
55°	81	77
65°	22	24
75°	7	7
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	816.4
2.5°	818.1
5°	816.4
7.5°	814.7
10°	809.6
12.5°	802.7
15°	794.1
17.5°	783.8
20°	768.3
22.5°	751.1
25°	723.6
27.5°	689.2
30°	646.3
32.5°	593.0
35°	529.4
37.5°	458.9
40°	386.7
42.5°	319.7
45°	256.1
47.5°	199.4
50°	151.3
52.5°	111.7
55°	80.8
57.5°	56.7
60°	41.3
62.5°	30.9
65°	22.3
67.5°	17.2
70°	12.0
72.5°	8.6
75°	6.9
77.5°	3.4
80°	3.4
82.5°	1.7
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)