

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: P274294

Luminaire Tested: **LD4B20DE010W2N2050 EU4B1020W2N902050 4LBW0MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P274294
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35172)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD4B20DE010W2N2050 EU4B1020W2N902050 4LBW0MW
Description: PORTFOLIO 4" W2N RN DOWNLIGHT, WIDE DISTRIBUTION WITH MATTE WHITE FINISH
Light Source: W2N 2000K-5000K CCT TUNING RANGE
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1326.9 lumens
Efficiency: N/A
Efficacy: 47.4 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.09
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

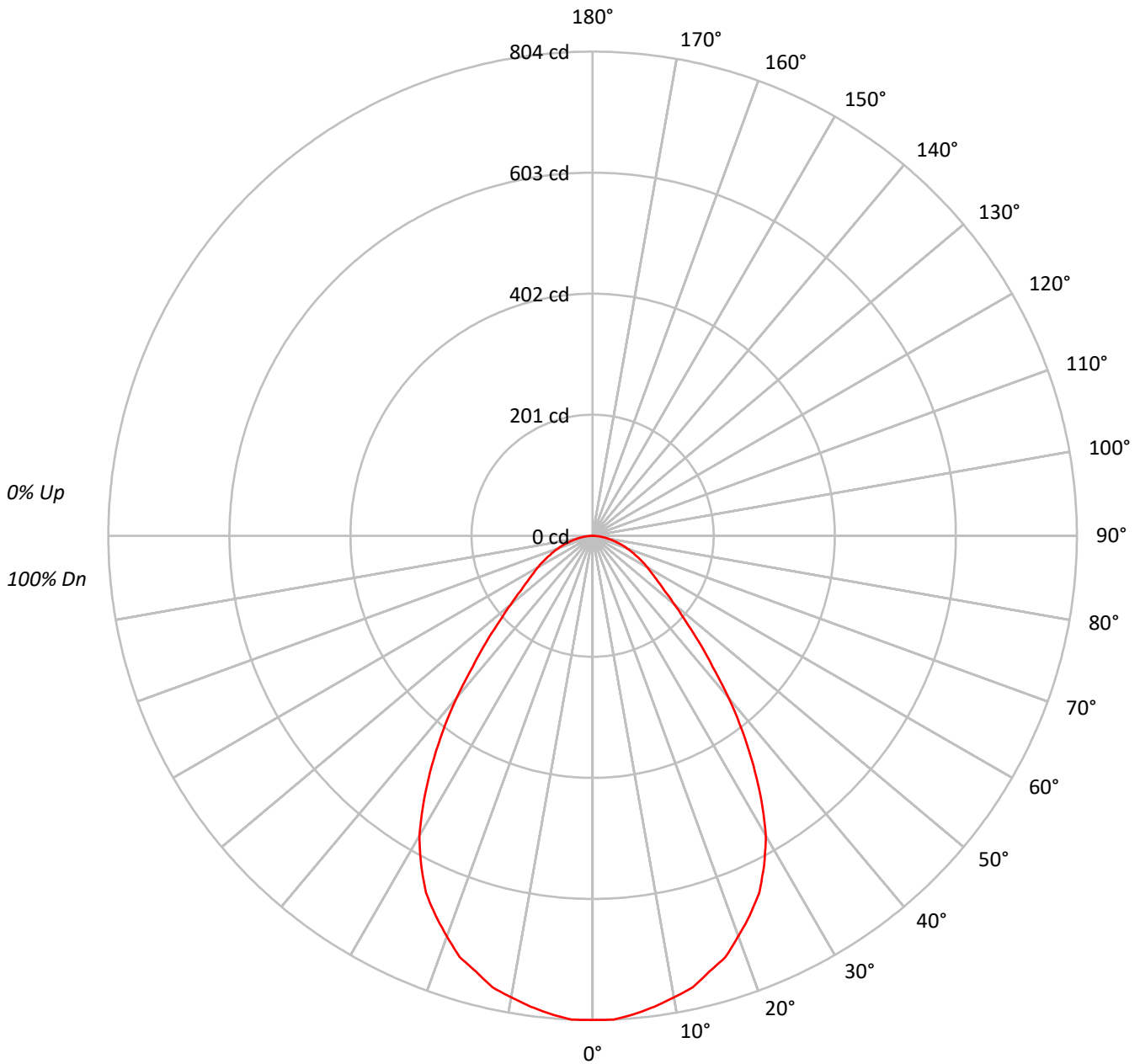
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	103	96	91	86	101	94	89	85	91	87	83	88	84	81	85	82	80	78			
3	96	87	80	75	93	85	79	74	83	77	73	80	76	72	78	74	71	69			
4	89	79	72	66	87	78	71	66	75	69	65	73	68	64	71	67	63	61			
5	83	72	64	59	81	71	64	58	69	63	58	67	62	57	65	61	57	55			
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	60	55	51	50			
7	73	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45			
8	68	56	49	44	67	56	49	44	54	48	43	53	47	43	52	47	43	41			
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	43	39	38			
10	61	49	42	37	59	48	41	37	47	41	37	46	41	37	46	40	36	35			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	87857
5°	87435
10°	86349
15°	84723
20°	82286
25°	78880
30°	72557
35°	62010
40°	50106
45°	38583
50°	30154
55°	25259
60°	22945
65°	20915
70°	19263
75°	17435
80°	15164
85°	12912



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.5	5.7
10°-20°	211.1	15.9
20°-30°	298.4	22.5
30°-40°	289.0	21.8
40°-50°	195.0	14.7
50°-60°	121.0	9.1
60°-70°	80.9	6.1
70°-80°	44.3	3.3
80°-90°	11.7	0.9
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°	585.0	44.1
0°-40°	874.0	65.9
0°-60°	1190.1	89.7
0°-90°	1326.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1326.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	804	
5°	797	75
15°	749	211
25°	654	298
35°	465	289
45°	250	195
55°	133	121
65°	81	81
75°	41	44
85°	10	12
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	804.1
2.5°	804.1
5°	797.2
7.5°	788.6
10°	778.3
12.5°	768.0
15°	749.0
17.5°	733.5
20°	707.7
22.5°	681.9
25°	654.3
27.5°	616.4
30°	575.1
32.5°	521.7
35°	464.9
37.5°	408.1
40°	351.3
42.5°	294.4
45°	249.7
47.5°	208.3
50°	177.4
52.5°	151.5
55°	132.6
57.5°	117.1
60°	105.0
62.5°	93.0
65°	80.9
67.5°	70.6
70°	60.3
72.5°	51.7
75°	41.3
77.5°	32.7
80°	24.1
82.5°	17.2
85°	10.3
87.5°	3.4
90°	0.0



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— 0°-180°







(END OF REPORT)