

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: P274312

Luminaire Tested: **LD4B20DE010W2N2050 EU4B1020W2N902050 4LBCS0MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P274312
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35142)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD4B20DE010W2N2050 EU4B1020W2N902050 4LBCS0MW
Description: PORTFOLIO 4" W2N RN DOWNLIGHT, CAST SHALLOW WITH MATTE WHITE FINISH
Light Source: W2N 2000K-5000K CCT TUNING RANGE
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1538.1 lumens
Efficiency: N/A
Efficacy: 54.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.23 / 1.33
Luminous Opening: Circular (Dia: 0.38' x H: 0')
CIE Type: Direct

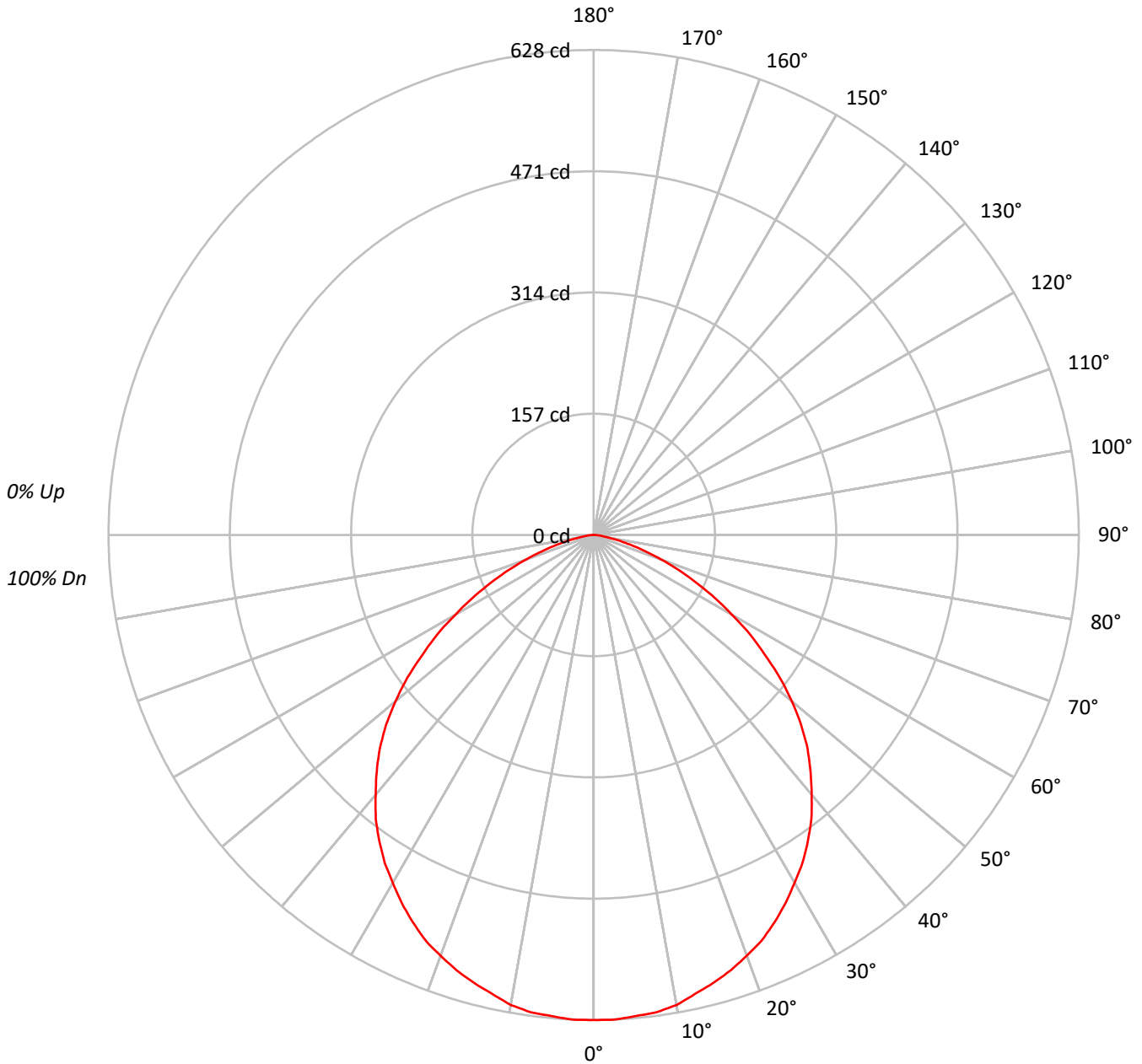
Input Watts (W): 28
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			100
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87			87
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74			74
3	93	83	75	70	90	81	74	69	79	73	68	76	71	67	73	69	65	63			63
4	85	74	66	60	83	73	65	59	70	64	58	68	62	58	66	61	57	55			55
5	79	66	58	52	77	65	57	51	63	56	51	61	55	50	60	54	50	48			48
6	73	60	52	45	71	59	51	45	57	50	45	56	49	44	54	49	44	42			42
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	50	44	39	37			37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	33			33
9	59	46	38	33	57	45	38	32	44	37	32	43	37	32	42	36	32	30			30
10	55	42	35	30	54	42	34	30	41	34	29	40	34	29	39	33	29	27			27

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	61223
5°	61183
10°	61158
15°	60558
20°	60122
25°	59530
30°	58529
35°	57548
40°	55851
45°	53959
50°	50731
55°	45927
60°	40328
65°	33968
70°	26557
75°	18602
80°	10439
85°	7268



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.5	3.9
10°-20°	169.4	11.0
20°-30°	254.9	16.6
30°-40°	302.1	19.6
40°-50°	300.6	19.5
50°-60°	242.4	15.8
60°-70°	146.6	9.5
70°-80°	54.4	3.5
80°-90°	8.1	0.5
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°	483.9	31.5
0°-40°	785.9	51.1
0°-60°	1328.9	86.4
0°-90°	1538.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1538.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	628	
5°	625	60
15°	600	169
25°	554	255
35°	484	302
45°	392	301
55°	270	242
65°	147	147
75°	49	54
85°	6	8
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	628.2
2.5°	628.2
5°	625.4
7.5°	623.5
10°	618.0
12.5°	608.6
15°	600.2
17.5°	590.9
20°	579.7
22.5°	568.6
25°	553.6
27.5°	537.8
30°	520.1
32.5°	503.3
35°	483.7
37.5°	463.2
40°	439.0
42.5°	415.7
45°	391.5
47.5°	364.4
50°	334.6
52.5°	303.9
55°	270.3
57.5°	240.5
60°	206.9
62.5°	177.1
65°	147.3
67.5°	119.3
70°	93.2
72.5°	69.9
75°	49.4
77.5°	31.7
80°	18.6
82.5°	11.2
85°	6.5
87.5°	2.8
90°	0.0



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— 0°-180°







(END OF REPORT)