

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: P274421

Luminaire Tested: **LD6B10DE010W2N2050 EU6B1020W2N902050 6LBCS0MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P274421  
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: LD6B10DE010W2N2050 EU6B1020W2N902050 6LBCS0MW  
Description: PORTFOLIO 6" W2N RN DOWNLIGHT, CAST SHALLOW WITH MATTE WHITE FINISH  
Light Source: W2N 2000K-5000K CCT TUNING RANGE  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 944.9 lumens  
Efficiency: N/A  
Efficacy: 67.5 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.23 / 1.33  
Luminous Opening: Circular (Dia: 0.46' x H: 0')  
CIE Type: Direct

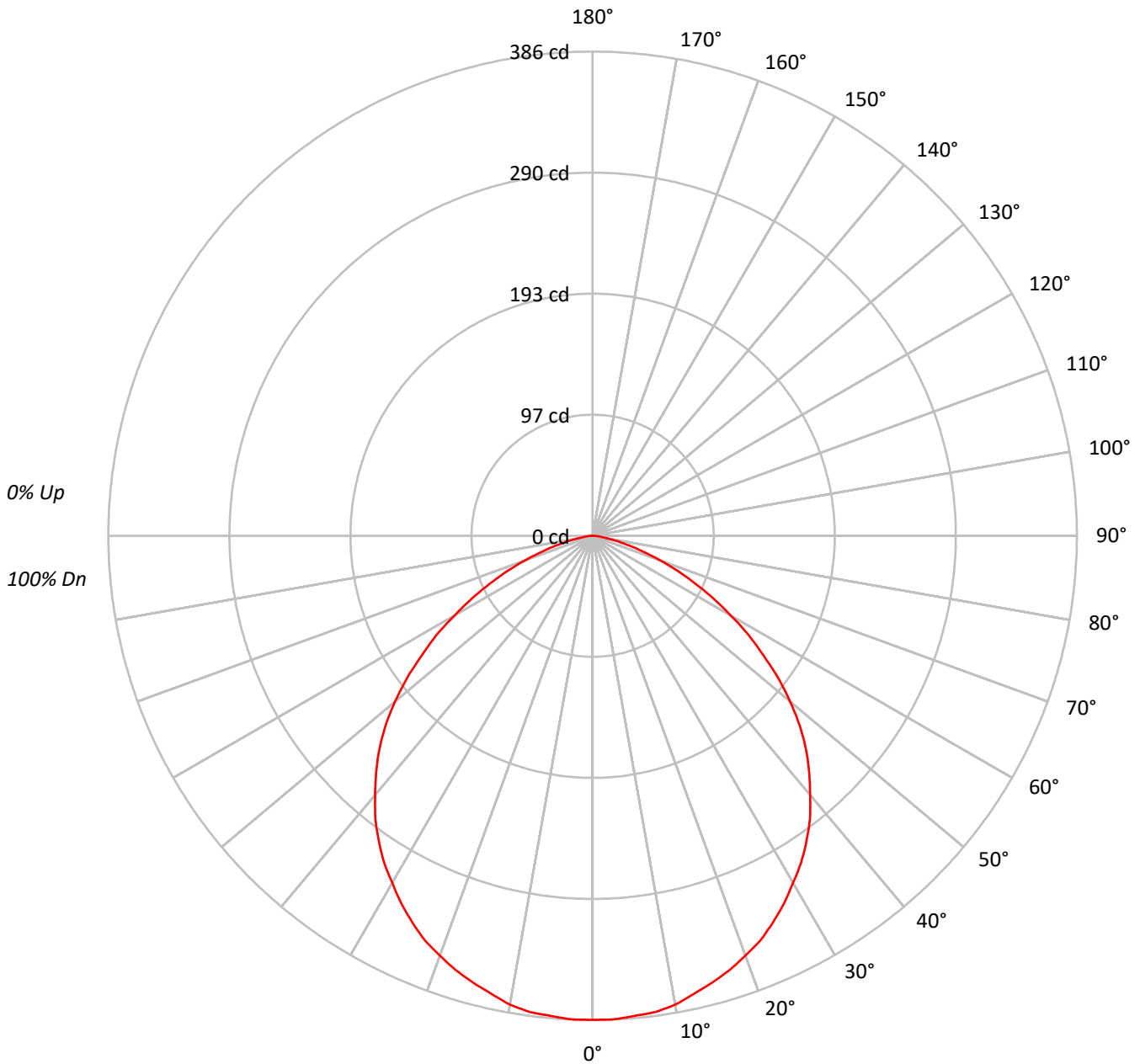
Input Watts (W): 14  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			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°	25176
5°	25161
10°	25147
15°	24903
20°	24723
25°	24482
30°	24069
35°	23670
40°	22969
45°	22190
50°	20858
55°	18881
60°	16584
65°	13971
70°	10930
75°	7638
80°	4321
85°	2994



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	36.6	3.9
10°-20°	104.1	11.0
20°-30°	156.6	16.6
30°-40°	185.6	19.6
40°-50°	184.7	19.5
50°-60°	148.9	15.8
60°-70°	90.1	9.5
70°-80°	33.4	3.5
80°-90°	5.0	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°	297.2	31.5
0°-40°	482.8	51.1
0°-60°	816.4	86.4
0°-90°	944.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	944.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	386	
5°	384	37
15°	369	104
25°	340	157
35°	297	186
45°	240	185
55°	166	149
65°	90	90
75°	30	33
85°	4	5
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	385.9
2.5°	385.9
5°	384.2
7.5°	383.0
10°	379.6
12.5°	373.9
15°	368.7
17.5°	363.0
20°	356.1
22.5°	349.3
25°	340.1
27.5°	330.4
30°	319.5
32.5°	309.2
35°	297.2
37.5°	284.6
40°	269.7
42.5°	255.4
45°	240.5
47.5°	223.9
50°	205.5
52.5°	186.7
55°	166.0
57.5°	147.7
60°	127.1
62.5°	108.8
65°	90.5
67.5°	73.3
70°	57.3
72.5°	42.9
75°	30.3
77.5°	19.5
80°	11.5
82.5°	6.9
85°	4.0
87.5°	1.7
90°	0.0



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— 0°-180°







(END OF REPORT)