

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: P274378

Luminaire Tested: **LD6B20DE010W2N2050 EU6B1020W2N902050 6LBN0H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P274378  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1808-906-17)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD6B20DE010W2N2050 EU6B1020W2N902050 6LBN0H  
Description: PORTFOLIO 6" W2N RN DOWNLIGHT, NARROW DISTRIBUTION WITH HAZE FINISH  
Light Source: W2N 2000K-5000K CCT TUNING RANGE  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1021.0 lumens  
Efficiency: N/A  
Efficacy: 36.5 lumens/watt  
Spacing Criteria (0/90/45): 0.7 / 0.7 / 0.77  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

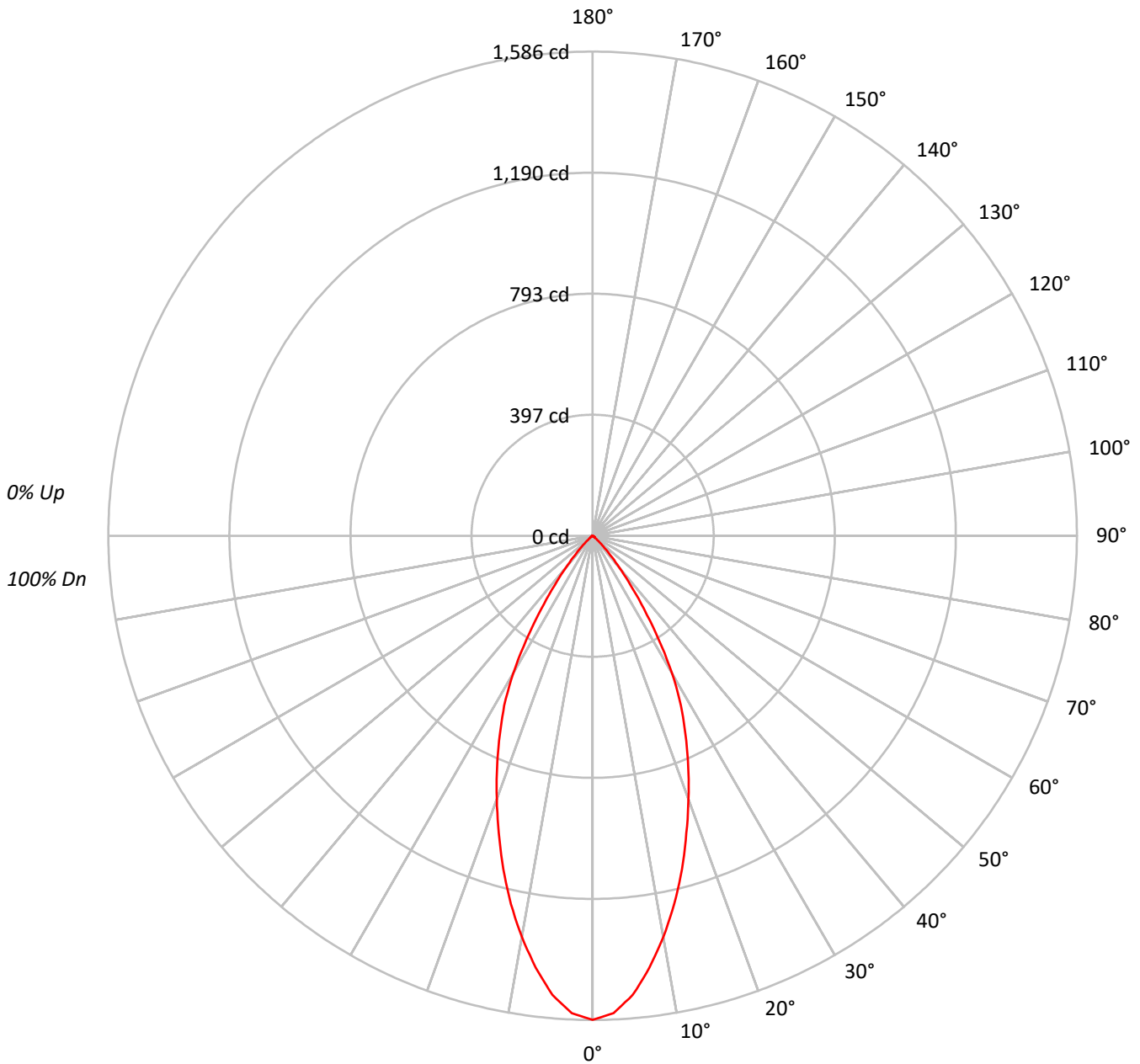
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94			
2	109	104	100	97	106	102	99	96	99	96	94	96	94	92	93	91	90	88			
3	103	97	93	89	101	96	92	88	93	90	87	91	88	85	89	86	84	83			
4	99	91	86	82	97	90	85	82	88	84	81	86	83	80	84	81	79	77			
5	94	86	81	76	92	85	80	76	83	79	75	82	78	75	80	77	74	73			
6	90	81	75	71	88	80	75	71	79	74	71	78	73	70	76	73	70	68			
7	85	77	71	67	84	76	71	67	75	70	66	74	69	66	73	69	66	64			
8	82	73	67	63	80	72	67	63	71	66	63	70	66	62	69	65	62	61			
9	78	69	63	59	77	68	63	59	67	63	59	67	62	59	66	62	59	58			
10	75	65	60	56	74	65	60	56	64	59	56	63	59	56	63	59	56	55			

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	86923
5°	83056
10°	74275
15°	64177
20°	53537
25°	43484
30°	32923
35°	19582
40°	9675
45°	3822
50°	947
55°	612
60°	351
65°	208
70°	256
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	138.4	13.6
10°-20°	313.8	30.7
20°-30°	328.2	32.1
30°-40°	187.8	18.4
40°-50°	44.0	4.3
50°-60°	6.2	0.6
60°-70°	2.2	0.2
70°-80°	0.6	0.1
80°-90°	0.0	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°	780.3	76.4
0°-40°	968.1	94.8
0°-60°	1018.2	99.7
0°-90°	1021.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1021.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1586	
5°	1509	138
15°	1131	314
25°	719	328
35°	293	188
45°	49	44
55°	6	6
65°	2	2
75°	0	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1585.6
2.5°	1564.9
5°	1509.3
7.5°	1426.6
10°	1334.3
12.5°	1235.7
15°	1130.8
17.5°	1021.0
20°	917.7
22.5°	817.5
25°	718.9
27.5°	626.6
30°	520.1
32.5°	402.4
35°	292.6
37.5°	203.6
40°	135.2
42.5°	85.9
45°	49.3
47.5°	25.4
50°	11.1
52.5°	9.5
55°	6.4
57.5°	4.8
60°	3.2
62.5°	3.2
65°	1.6
67.5°	1.6
70°	1.6
72.5°	1.6
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)