

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: P274396

Luminaire Tested: **LD6B20DE010W2N2050 EU6B1020W2N902050 6LBW0LI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P274396  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35285)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD6B20DE010W2N2050 EU6B1020W2N902050 6LBW0LI  
Description: PORTFOLIO 6" W2N RN DOWNLIGHT, WIDE DISTRIBUTION WITH SPECULAR FINISH  
Light Source: W2N 2000K-5000K CCT TUNING RANGE  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1646.7 lumens  
Efficiency: N/A  
Efficacy: 58.8 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.18  
Luminous Opening: Circular (Dia: 0.46' x H: 0')  
CIE Type: Direct

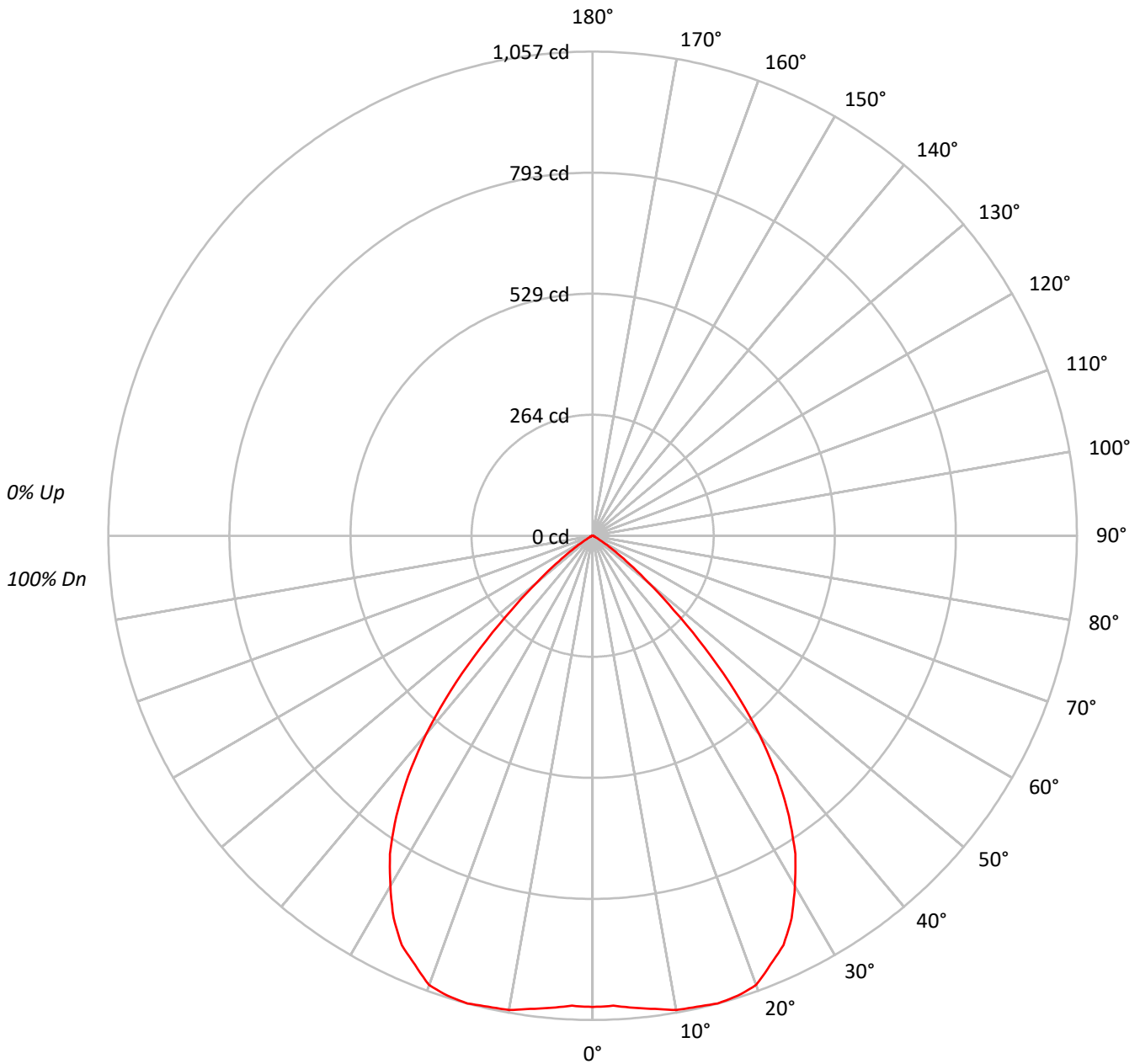
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			100
1	113	110	107	104	110	107	105	103	103	101	99	100	98	97	96	95	94	92			92
2	106	101	96	92	104	99	95	91	95	92	89	92	90	87	90	87	85	83			83
3	100	92	87	82	97	91	86	81	88	84	80	86	82	79	83	80	77	76			76
4	93	85	78	73	92	84	78	73	81	76	72	79	75	71	77	74	70	69			69
5	88	78	71	66	86	77	71	66	75	70	65	73	69	65	72	68	64	63			63
6	82	72	65	60	81	71	65	60	70	64	59	68	63	59	67	62	59	57			57
7	77	67	60	55	76	66	59	55	65	59	54	63	58	54	62	57	54	52			52
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48			48
9	69	57	51	46	67	57	50	46	56	50	46	55	50	46	54	49	46	44			44
10	65	54	47	43	64	53	47	43	52	46	42	51	46	42	51	46	42	41			41

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

	0°
0°	67120
5°	67743
10°	69639
15°	71378
20°	72462
25°	70963
30°	66527
35°	59478
40°	48178
45°	31868
50°	16107
55°	6790
60°	2192
65°	864
70°	706
75°	479
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	99.2	6.0
10°-20°	298.3	18.1
20°-30°	449.7	27.3
30°-40°	460.3	27.9
40°-50°	268.1	16.3
50°-60°	61.6	3.7
60°-70°	7.6	0.5
70°-80°	2.0	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°	847.2	51.4
0°-40°	1307.5	79.4
0°-60°	1637.2	99.4
0°-90°	1646.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1646.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1029	
5°	1034	99
15°	1057	298
25°	986	450
35°	747	460
45°	345	268
55°	60	62
65°	6	8
75°	2	2
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1028.8
2.5°	1026.9
5°	1034.4
7.5°	1041.8
10°	1051.2
12.5°	1053.0
15°	1056.8
17.5°	1053.0
20°	1043.7
22.5°	1013.8
25°	985.8
27.5°	941.0
30°	883.1
32.5°	823.4
35°	746.8
37.5°	661.0
40°	565.7
42.5°	459.3
45°	345.4
47.5°	240.9
50°	158.7
52.5°	100.8
55°	59.7
57.5°	31.7
60°	16.8
62.5°	9.3
65°	5.6
67.5°	5.6
70°	3.7
72.5°	1.9
75°	1.9
77.5°	1.9
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)