

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: P274485

Luminaire Tested: **LD6B10DE010W2N2050 EU6B1020W2N902050 6LBCSSQ1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P274485  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1808-906-38)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD6B10DE010W2N2050 EU6B1020W2N902050 6LBCSSQ1MW  
Description: PORTFOLIO 6" W2N SQ 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: 890.4 lumens  
Efficiency: N/A  
Efficacy: 63.6 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.36  
Luminous Opening: Rectangular (W 0.46' x L: 0.46' x H: 0')  
CIE Type: Direct

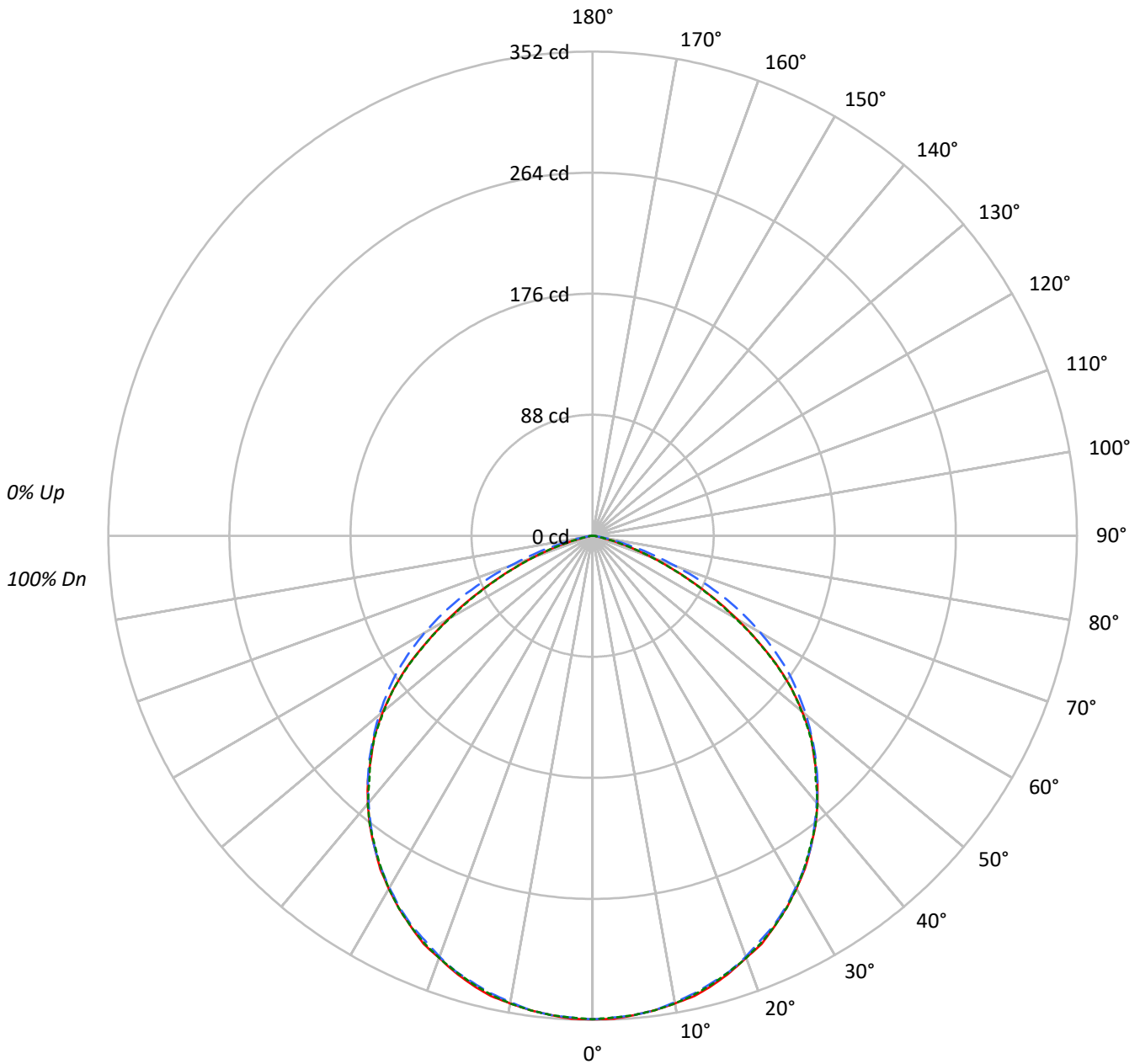
Input Watts (W): 14  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
RC	80									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	110	106	102	99	108	104	100	97	100	97	94	96	94	91	92	90	89	87																			
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74																			
3	93	83	75	69	90	81	74	69	78	72	68	76	71	66	73	69	65	63																			
4	85	74	66	59	83	72	65	59	70	63	58	68	62	57	66	61	57	54																			
5	78	66	58	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47																			
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42																			
7	67	54	46	40	65	53	45	40	52	45	39	50	44	39	49	43	39	37																			
8	63	49	41	36	61	49	41	35	47	40	35	46	40	35	45	39	35	33																			
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30																			
10	55	42	34	29	54	41	34	29	40	34	29	39	33	29	39	33	29	27																			

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

	0°	45°	90°
0°	18011	18011	18011
5°	17987	17987	17987
10°	17961	17914	17961
15°	17935	17840	17888
20°	17803	17754	17803
25°	17702	17651	17702
30°	17525	17472	17525
35°	17296	17296	17246
40°	17003	16943	17003
45°	16486	16616	16551
50°	15855	16142	15784
55°	14579	15544	14508
60°	12431	14439	12246
65°	9845	12658	9736
70°	6817	9483	6817
75°	3524	5820	3524
80°	1328	2095	1328
85°	1058	1058	1058



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	33.2	3.7
10°-20°	95.1	10.7
20°-30°	144.0	16.2
30°-40°	172.7	19.4
40°-50°	176.1	19.8
50°-60°	149.4	16.8
60°-70°	90.5	10.2
70°-80°	26.9	3.0
80°-90°	2.4	0.3
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°	272.3	30.6
0°-40°	445.0	50.0
0°-60°	770.5	86.5
0°-90°	890.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	890.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	352	352	352	352	352	
5°	350	350	350	350	350	33
15°	338	337	336	337	337	95
25°	313	313	312	312	313	144
35°	276	276	276	276	276	173
45°	228	228	229	229	228	176
55°	163	169	174	169	162	144
65°	81	91	104	90	80	81
75°	18	23	29	22	18	22
85°	2	2	2	2	2	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	351.5	351.5	351.5	351.5	351.5
2.5°	351.5	350.6	350.6	351.5	350.6
5°	349.7	349.7	349.7	349.7	349.7
7.5°	347.9	347.0	347.9	347.9	347.9
10°	345.2	345.2	344.3	345.2	345.2
12.5°	342.6	340.8	340.8	341.7	341.7
15°	338.1	337.2	336.3	337.2	337.2
17.5°	332.7	331.9	331.9	332.7	331.9
20°	326.5	325.6	325.6	326.5	326.5
22.5°	321.1	319.4	318.5	320.3	320.3
25°	313.1	313.1	312.2	312.2	313.1
27.5°	305.1	304.2	304.2	304.2	305.1
30°	296.2	295.3	295.3	296.2	296.2
32.5°	287.2	286.4	286.4	287.2	286.4
35°	276.5	276.5	276.5	276.5	275.7
37.5°	265.8	264.9	264.9	264.9	265.8
40°	254.2	253.3	253.3	254.2	254.2
42.5°	241.8	240.9	241.8	241.8	240.0
45°	227.5	228.4	229.3	229.3	228.4
47.5°	215.0	215.0	215.9	215.0	214.1
50°	198.9	199.8	202.5	200.7	198.0
52.5°	182.0	184.7	188.2	185.6	182.0
55°	163.2	168.6	174.0	168.6	162.4
57.5°	141.8	149.9	157.9	149.9	141.8
60°	121.3	130.2	140.9	130.2	119.5
62.5°	100.8	109.7	123.1	109.7	99.9
65°	81.2	91.0	104.4	90.1	80.3
67.5°	62.4	71.4	83.9	71.4	61.6
70°	45.5	53.5	63.3	53.5	45.5
72.5°	31.2	36.6	45.5	37.5	30.3
75°	17.8	23.2	29.4	22.3	17.8
77.5°	8.9	11.6	16.1	11.6	8.9
80°	4.5	5.4	7.1	5.4	4.5
82.5°	2.7	3.6	3.6	3.6	2.7
85°	1.8	1.8	1.8	1.8	1.8
87.5°	0.9	0.9	0.9	0.9	0.9
90°	0.0	0.0	0.0	0.0	0.0



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— 0°-180°    - - 45°-225°    - - - - 90°-270°







(END OF REPORT)