

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: P274486

Luminaire Tested: **LD6B15DE010W2N2050 EU6B1020W2N902050 6LBCSSQ1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P274486  
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: LD6B15DE010W2N2050 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: 1284.9 lumens  
Efficiency: N/A  
Efficacy: 58.4 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

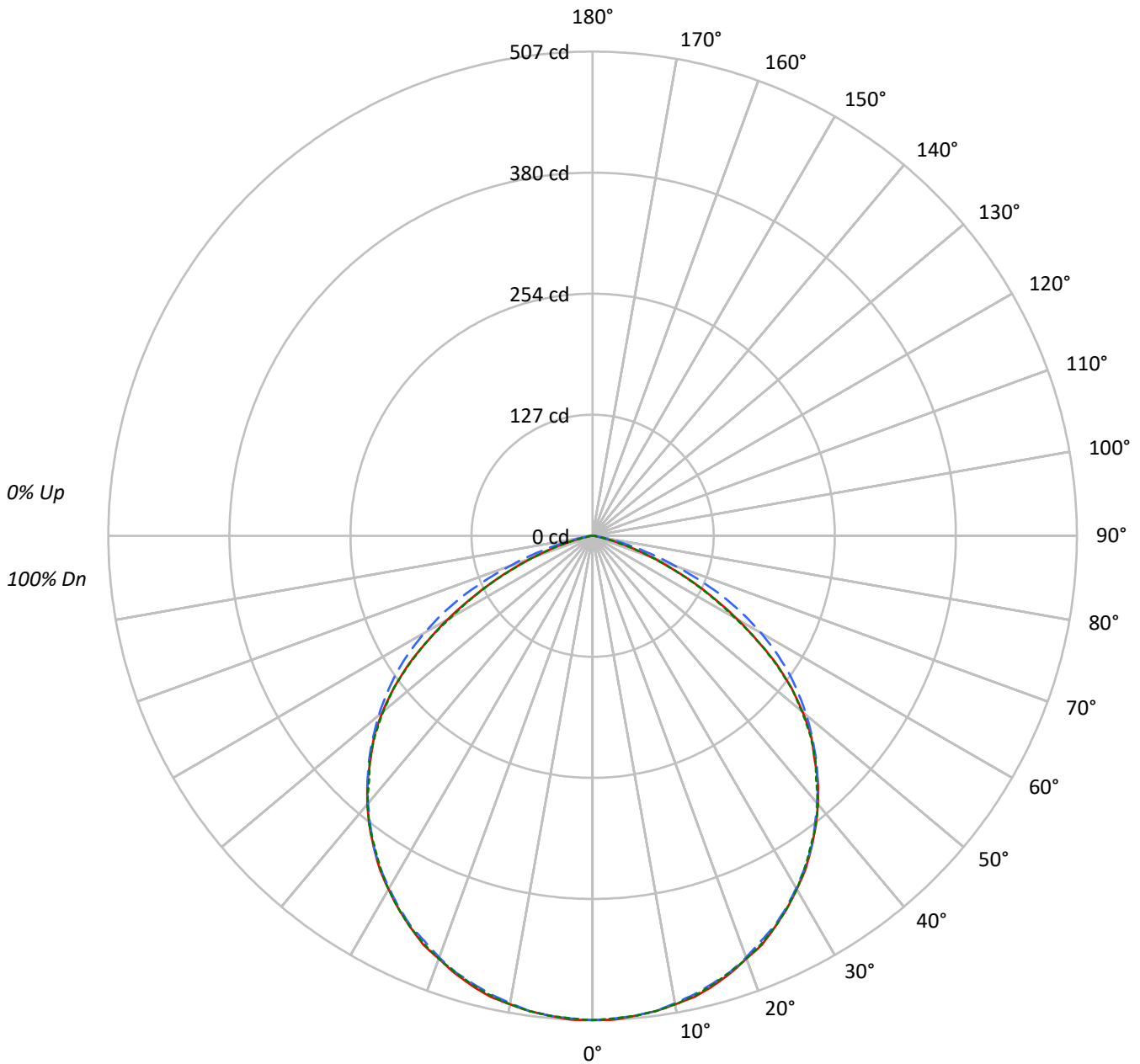
Input Watts (W): 22  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	25989	25989	25989
5°	25954	25954	25954
10°	25922	25854	25922
15°	25882	25744	25813
20°	25694	25623	25694
25°	25549	25476	25549
30°	25288	25211	25288
35°	24965	24965	24883
40°	24542	24455	24542
45°	23790	23978	23884
50°	22886	23293	22783
55°	21047	22423	20931
60°	17944	20844	17678
65°	14198	18259	14052
70°	9843	13693	9843
75°	5088	8414	5088
80°	1889	3039	1889
85°	1529	1529	1529



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	48.0	3.7
10°-20°	137.3	10.7
20°-30°	207.8	16.2
30°-40°	249.2	19.4
40°-50°	254.1	19.8
50°-60°	215.6	16.8
60°-70°	130.6	10.2
70°-80°	38.9	3.0
80°-90°	3.5	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°	393.0	30.6
0°-40°	642.2	50.0
0°-60°	1112.0	86.5
0°-90°	1284.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1284.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	507	507	507	507	507	
5°	505	505	505	505	505	48
15°	488	487	485	487	487	138
25°	452	452	451	451	452	208
35°	399	399	399	399	398	250
45°	328	330	331	331	330	254
55°	236	243	251	243	234	209
65°	117	131	151	130	116	117
75°	26	34	42	32	26	31
85°	3	3	3	3	3	3
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	507.2	507.2	507.2	507.2	507.2
2.5°	507.2	505.9	505.9	507.2	505.9
5°	504.6	504.6	504.6	504.6	504.6
7.5°	502.1	500.8	502.1	502.1	502.1
10°	498.2	498.2	496.9	498.2	498.2
12.5°	494.3	491.8	491.8	493.1	493.1
15°	487.9	486.6	485.3	486.6	486.6
17.5°	480.2	478.9	478.9	480.2	478.9
20°	471.2	469.9	469.9	471.2	471.2
22.5°	463.4	460.9	459.6	462.2	462.2
25°	451.9	451.9	450.6	450.6	451.9
27.5°	440.3	439.0	439.0	439.0	440.3
30°	427.4	426.1	426.1	427.4	427.4
32.5°	414.5	413.2	413.2	414.5	413.2
35°	399.1	399.1	399.1	399.1	397.8
37.5°	383.6	382.3	382.3	382.3	383.6
40°	366.9	365.6	365.6	366.9	366.9
42.5°	348.9	347.6	348.9	348.9	346.3
45°	328.3	329.6	330.9	330.9	329.6
47.5°	310.3	310.3	311.5	310.3	309.0
50°	287.1	288.4	292.2	289.7	285.8
52.5°	262.6	266.5	271.6	267.8	262.6
55°	235.6	243.3	251.0	243.3	234.3
57.5°	204.7	216.3	227.9	216.3	204.7
60°	175.1	188.0	203.4	188.0	172.5
62.5°	145.5	158.3	177.7	158.3	144.2
65°	117.1	131.3	150.6	130.0	115.9
67.5°	90.1	103.0	121.0	103.0	88.8
70°	65.7	77.2	91.4	77.2	65.7
72.5°	45.1	52.8	65.7	54.1	43.8
75°	25.7	33.5	42.5	32.2	25.7
77.5°	12.9	16.7	23.2	16.7	12.9
80°	6.4	7.7	10.3	7.7	6.4
82.5°	3.9	5.1	5.1	5.1	3.9
85°	2.6	2.6	2.6	2.6	2.6
87.5°	1.3	1.3	1.3	1.3	1.3
90°	0.0	0.0	0.0	0.0	0.0



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







(END OF REPORT)