

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: P274464

Luminaire Tested: **LD6B10DE010W2N2765 EU6B1020W2N902765 6LBSQ0LI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P274464  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35088)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD6B10DE010W2N2765 EU6B1020W2N902765 6LBSQ0LI  
Description: PORTFOLIO 6" W2N SQ DOWNLIGHT WITH SPECULAR FINISH  
Light Source: W2N 2700K-6500K CCT TUNING RANGE  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1052.3 lumens  
Efficiency: N/A  
Efficacy: 75.2 lumens/watt  
Spacing Criteria (0/90/45): 0.91 / 0.9 / 0.94  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

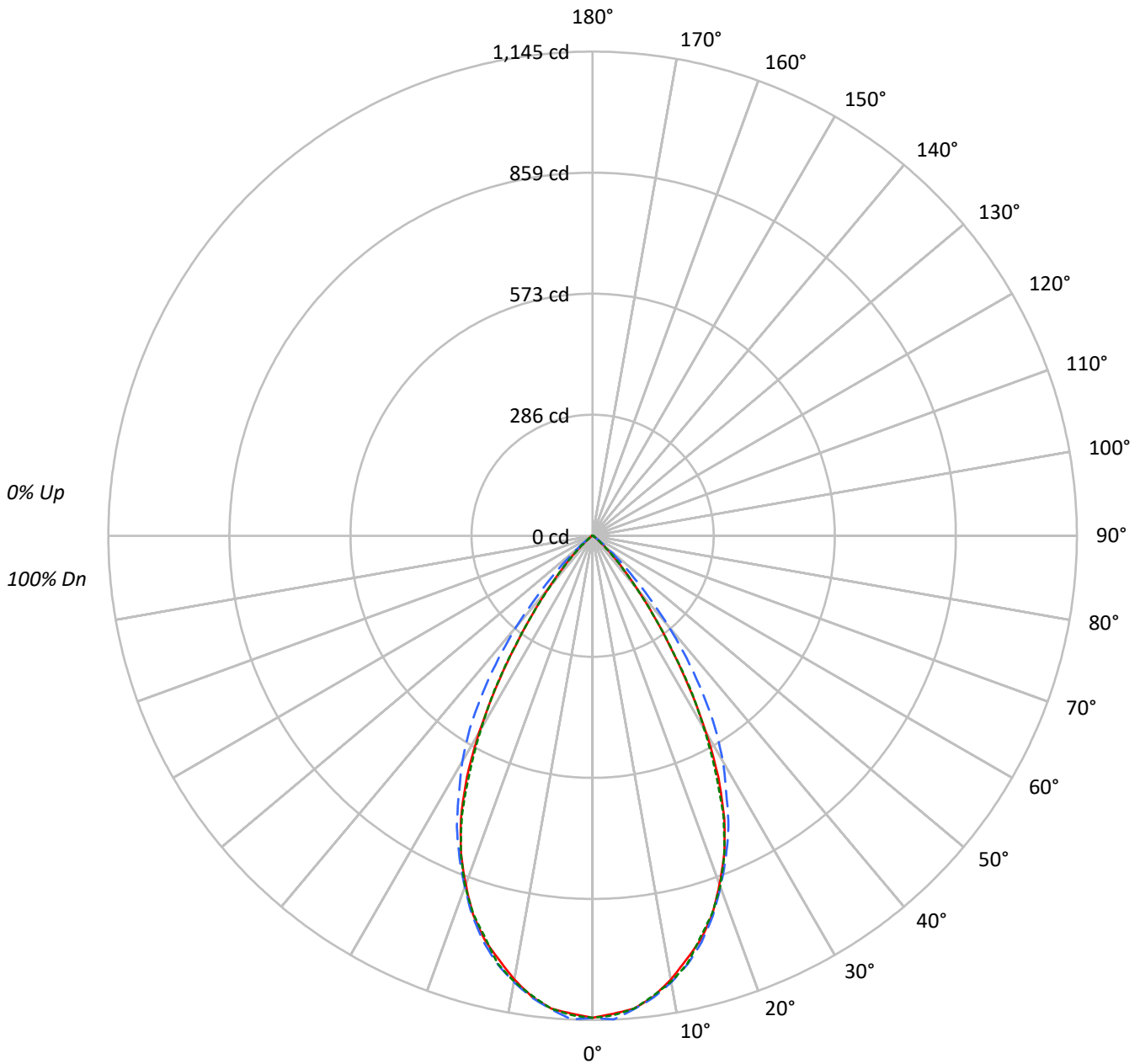
Input Watts (W): 14  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93					93			
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	87					87			
3	102	96	91	87	100	94	90	86	92	88	84	89	86	83	87	84	82	80					80			
4	97	89	84	79	95	88	83	79	86	81	78	84	80	77	82	79	76	75					75			
5	92	83	77	73	90	82	77	73	81	76	72	79	75	71	77	74	71	69					69			
6	87	78	72	68	86	77	72	67	76	71	67	74	70	66	73	69	66	65					65			
7	83	73	67	63	81	73	67	63	71	66	62	70	65	62	69	65	62	60					60			
8	79	69	63	59	77	68	62	58	67	62	58	66	61	58	65	61	58	56					56			
9	75	65	59	55	74	64	59	55	63	58	55	63	58	54	62	57	54	53					53			
10	71	61	55	51	70	61	55	51	60	55	51	59	54	51	58	54	51	50					50			

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

	0°	45°	90°
0°	49079	49079	49079
5°	48515	48575	48515
10°	46575	46859	46793
15°	44031	44352	43803
20°	40183	40481	40380
25°	34989	36091	34746
30°	26608	30605	26210
35°	16746	23789	16898
40°	9038	15709	8875
45°	4274	7763	4232
50°	1601	2914	1601
55°	758	923	706
60°	499	439	499
65°	295	295	295
70°	176	277	176
75°	116	116	116
80°	174	174	174
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	105.7	10.0
10°-20°	277.0	26.3
20°-30°	338.4	32.2
30°-40°	236.6	22.5
40°-50°	77.6	7.4
50°-60°	12.3	1.2
60°-70°	3.4	0.3
70°-80°	1.1	0.1
80°-90°	0.3	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°	721.0	68.5
0°-40°	957.7	91.0
0°-60°	1047.5	99.5
0°-90°	1052.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1052.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1140	1140	1140	1140	1140	
5°	1122	1123	1124	1117	1122	105
15°	988	992	995	989	983	276
25°	736	748	760	746	731	331
35°	319	376	453	370	322	203
45°	70	87	128	85	70	59
55°	10	11	12	11	9	10
65°	3	4	3	4	3	3
75°	1	1	1	1	1	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1139.9	1139.9	1139.9	1139.9	1139.9	1139.9	1139.9	1139.9	1139.9	1139.9	1139.9
2.5°	1131.2	1139.1	1137.0	1142.0	1142.0	1136.2	1137.7	1139.9	1142.8	1144.9	1127.6
5°	1122.5	1129.7	1123.2	1130.4	1126.1	1119.6	1130.4	1124.7	1128.3	1123.9	1126.8
7.5°	1099.3	1110.9	1097.9	1106.5	1103.7	1100.0	1104.4	1102.9	1105.1	1101.5	1093.5
10°	1065.3	1074.7	1066.0	1078.3	1072.5	1068.9	1072.5	1076.1	1075.4	1071.8	1076.1
12.5°	1026.2	1037.0	1032.7	1039.9	1033.4	1033.4	1042.1	1039.9	1040.6	1037.8	1042.8
15°	987.8	995.7	989.2	998.6	995.7	987.8	991.4	991.4	997.2	995.0	989.2
17.5°	940.0	946.5	939.3	941.4	938.5	937.1	952.3	942.2	948.0	943.6	944.3
20°	877.0	879.9	877.7	883.5	879.9	884.2	882.8	881.3	881.3	883.5	878.4
22.5°	813.3	813.3	815.4	816.9	819.8	815.4	824.1	816.9	817.6	822.7	821.2
25°	736.5	734.3	739.4	746.6	749.5	745.9	757.5	751.7	756.0	759.7	751.7
27.5°	643.1	643.1	648.1	660.5	662.6	667.0	682.9	682.9	688.7	683.6	689.4
30°	535.2	543.1	549.7	565.6	570.7	580.1	596.7	604.7	617.7	615.6	612.7
32.5°	424.4	435.2	436.0	452.6	466.4	482.3	504.8	523.6	533.0	539.5	532.3
35°	318.6	325.2	331.0	342.5	365.7	386.7	407.0	431.6	448.3	452.6	446.1
37.5°	233.2	234.6	240.4	251.3	268.7	288.9	313.6	340.4	357.7	364.3	357.0
40°	160.8	162.2	165.1	174.5	189.0	203.5	223.0	250.6	266.5	279.5	270.1
42.5°	107.9	109.4	112.2	119.5	127.5	141.2	156.4	173.8	189.0	194.8	189.7
45°	70.2	70.2	71.7	76.8	81.1	92.0	102.8	113.7	123.8	127.5	123.8
47.5°	41.3	42.0	43.5	47.1	52.1	56.5	64.5	71.7	74.6	77.5	76.0
50°	23.9	23.9	26.1	28.2	31.9	34.8	37.7	40.6	42.0	43.5	42.0
52.5°	13.0	13.8	14.5	15.2	16.7	19.6	21.7	21.7	22.4	23.2	22.4
55°	10.1	10.1	10.1	10.1	10.9	10.9	10.9	11.6	11.6	12.3	11.6
57.5°	7.2	7.2	7.2	8.0	8.0	8.0	7.2	7.2	7.2	7.2	7.2
60°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.1	5.1	5.1	5.1
62.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
65°	2.9	2.9	3.6	3.6	3.6	3.6	3.6	2.9	2.9	2.9	2.9
67.5°	2.2	2.2	2.2	2.2	2.9	2.9	2.2	2.2	2.2	2.2	2.2
70°	1.4	1.4	1.4	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
72.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
75°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
77.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
80°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1139.9	1139.9	1139.9	1139.9	1139.9	1139.9	1139.9	1139.9
2.5°	1139.9	1127.6	1129.0	1135.5	1131.9	1135.5	1134.8	1134.8
5°	1127.6	1123.9	1118.1	1116.0	1120.3	1129.7	1128.3	1122.5
7.5°	1104.4	1095.0	1101.5	1104.4	1100.8	1106.5	1109.4	1097.1
10°	1076.9	1073.2	1071.8	1073.2	1071.8	1077.6	1070.3	1070.3
12.5°	1037.8	1032.0	1032.0	1040.6	1035.6	1031.2	1037.0	1036.3
15°	998.6	987.1	987.1	990.0	992.1	989.2	990.0	982.7
17.5°	940.7	937.1	932.0	940.0	942.2	939.3	941.4	937.8
20°	886.4	886.4	877.0	880.6	883.5	885.7	887.1	881.3
22.5°	816.9	818.3	811.8	819.0	821.2	814.0	815.4	814.0
25°	753.1	752.4	747.4	744.5	745.9	743.0	742.3	731.4
27.5°	682.9	675.7	664.8	667.7	655.4	645.2	645.2	628.6
30°	606.9	594.6	580.1	565.6	554.7	543.1	536.6	527.2
32.5°	517.8	501.1	483.0	463.5	451.2	433.8	424.4	429.4
35°	429.4	404.8	380.2	360.6	341.8	331.7	320.1	321.5
37.5°	344.0	309.2	287.5	266.5	250.6	237.5	232.5	231.0
40°	251.3	223.8	202.0	186.8	176.0	165.8	160.0	157.9
42.5°	173.8	154.3	136.9	124.6	117.3	110.8	107.9	107.2
45°	113.0	101.4	89.8	81.1	75.3	71.0	70.2	69.5
47.5°	71.0	65.2	57.9	51.4	46.3	43.5	41.3	41.3
50°	40.6	38.4	34.8	31.1	28.2	26.8	24.6	23.9
52.5°	21.7	21.7	20.3	17.4	15.2	13.8	13.8	13.0
55°	11.6	11.6	10.9	10.9	10.1	10.1	10.1	9.4
57.5°	7.2	7.2	8.0	8.0	7.2	7.2	7.2	7.2
60°	5.1	5.8	5.8	5.8	5.8	5.8	5.8	5.8
62.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
65°	2.9	3.6	3.6	3.6	3.6	2.9	2.9	2.9
67.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
70°	2.2	2.2	2.2	2.2	2.2	1.4	1.4	1.4
72.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
75°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
77.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
80°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



Report Generated By E9808895 / USPTCWHP6082093







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









(END OF REPORT)