

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: P#

Luminaire Tested: **LD2B20D010 EU2B20WFL559027 2LBDSQLC\*MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14812)  
Test Lab: INNOVATION CENTER (G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD2B20D010 EU2B20WFL559027 2LBDSQLC\*MB  
Description: 2000 Lumen, 2inch Portfolio LED Downlight  
WIDE FLOOD OPTIC  
LENSED SQUARE CAST TRIM WITH MATTE BLACK FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1175.0 lumens  
Efficiency: N/A  
Efficacy: 56.2 lumens/watt  
Spacing Criteria (0/90/45): 0.78 / 0.76 / 0.83  
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')  
CIE Type: Direct

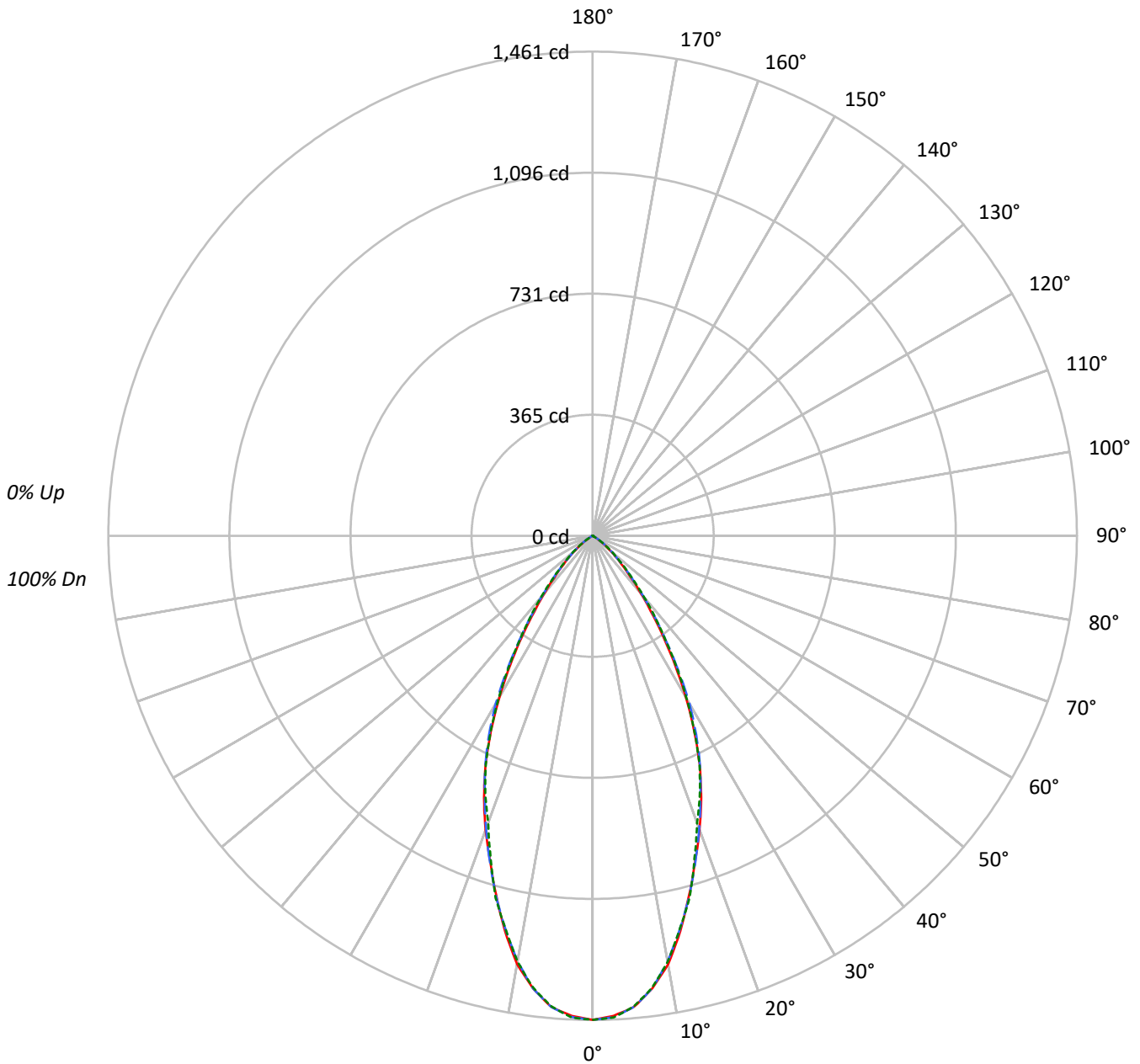
Input Watts (W): 20.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			
1	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93			
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	86			
3	102	95	90	86	100	94	89	86	91	88	84	89	86	83	87	84	82	80			
4	97	89	83	79	95	88	83	79	86	81	78	84	80	77	82	79	76	74			
5	92	83	77	73	90	82	77	72	80	75	72	79	74	71	77	73	70	69			
6	87	78	72	67	85	77	71	67	76	70	67	74	70	66	73	69	66	64			
7	83	73	67	63	81	72	67	62	71	66	62	70	65	62	69	65	61	60			
8	78	69	63	58	77	68	62	58	67	62	58	66	61	58	65	61	58	56			
9	75	65	59	55	74	64	59	55	63	58	54	62	58	54	62	57	54	53			
10	71	61	55	51	70	61	55	51	60	55	51	59	54	51	58	54	51	50			

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

	0°	45°	90°
0°	565835	565835	565835
5°	555049	555049	554310
10°	516234	512576	513324
15°	450495	451257	453462
20°	388957	387431	379806
25°	326440	328021	325628
30°	251231	261205	253735
35°	175337	182336	180586
40°	114377	119029	122821
45°	70062	74116	77184
50°	41339	44713	46943
55°	17558	22556	21272
60°	2866	5733	4338
65°	1741	1741	1741
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	132.3	11.3
10°-20°	313.1	26.6
20°-30°	346.8	29.5
30°-40°	241.3	20.5
40°-50°	108.7	9.2
50°-60°	30.7	2.6
60°-70°	2.1	0.2
70°-80°	0.0	0.0
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°	792.2	67.4
0°-40°	1033.6	88.0
0°-60°	1172.9	99.8
0°-90°	1175.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1175.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1461	1461	1461	1461	1461	
5°	1428	1433	1428	1422	1426	132
15°	1123	1129	1125	1123	1131	314
25°	764	769	768	758	762	346
35°	371	382	386	386	382	234
45°	128	132	135	139	141	103
55°	26	30	33	33	32	26
65°	2	2	2	2	2	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1460.8	1460.8	1460.8	1460.8	1460.8
2.5°	1449.7	1457.1	1453.4	1453.4	1455.3
5°	1427.5	1433.0	1427.5	1421.9	1425.6
7.5°	1377.4	1383.0	1377.4	1373.7	1375.5
10°	1312.5	1308.8	1303.2	1299.5	1305.1
12.5°	1221.7	1219.8	1216.1	1214.3	1214.3
15°	1123.4	1129.0	1125.3	1123.4	1130.8
17.5°	1028.9	1034.4	1030.7	1025.2	1021.5
20°	943.6	945.5	939.9	930.6	921.4
22.5°	856.5	858.3	849.1	845.3	845.3
25°	763.8	769.3	767.5	758.2	761.9
27.5°	663.7	672.9	676.6	665.5	665.5
30°	561.7	569.1	584.0	569.1	567.3
32.5°	461.6	472.7	480.1	478.3	472.7
35°	370.8	381.9	385.6	385.6	381.9
37.5°	289.2	300.3	304.0	307.7	307.7
40°	226.2	231.7	235.4	241.0	242.9
42.5°	170.6	176.1	181.7	185.4	183.5
45°	127.9	131.6	135.3	139.0	140.9
47.5°	96.4	96.4	100.1	103.8	103.8
50°	68.6	72.3	74.2	76.0	77.9
52.5°	46.3	48.2	51.9	53.8	51.9
55°	26.0	29.7	33.4	33.4	31.5
57.5°	11.1	16.7	18.5	18.5	14.8
60°	3.7	7.4	7.4	9.3	5.6
62.5°	1.9	3.7	3.7	3.7	1.9
65°	1.9	1.9	1.9	1.9	1.9
67.5°	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0



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







(END OF REPORT)