

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 EU2B20WFL558040 2LBDSQC\*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 (P14813)  
Test Lab: INNOVATION CENTER (G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD2B20D010 EU2B20WFL558040 2LBDSQC\*MB  
Description: 2000 Lumen, 2inch Portfolio LED Downlight  
WIDE FLOOD OPTIC  
SQUARE CAST TRIM WITH MATTE BLACK FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

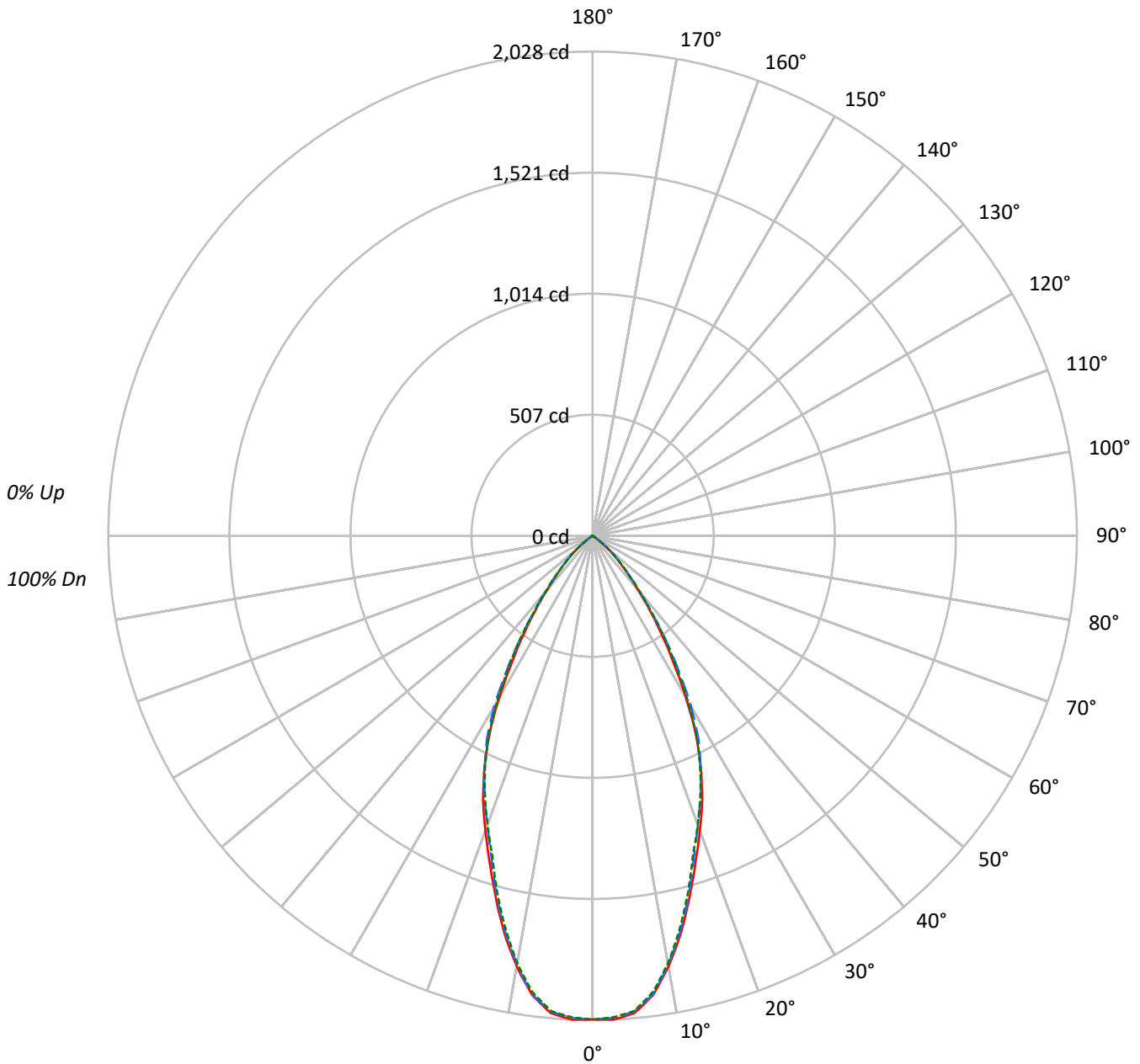
Lumens per Lamp: N/A  
Luminaire Lumens: 1598.9 lumens  
Efficiency: N/A  
Efficacy: 76.5 lumens/watt  
Spacing Criteria (0/90/45): 0.78 / 0.77 / 0.83  
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')  
CIE Type: Direct

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									
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	114	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94																			
2	108	103	99	96	106	101	98	94	98	95	92	95	93	90	92	90	89	87																			
3	102	96	91	87	100	95	90	86	92	88	85	89	86	84	87	85	82	81																			
4	97	90	84	80	95	88	83	79	86	82	78	84	80	77	82	79	77	75																			
5	92	84	78	74	91	83	77	73	81	76	73	79	75	72	78	74	71	70																			
6	87	79	73	68	86	78	72	68	76	71	68	75	70	67	74	70	67	65																			
7	83	74	68	64	82	73	67	63	72	67	63	71	66	63	70	65	62	61																			
8	79	70	64	59	78	69	63	59	68	63	59	67	62	59	66	62	58	57																			
9	75	66	60	56	74	65	59	56	64	59	55	63	59	55	62	58	55	54																			
10	72	62	56	52	71	62	56	52	61	56	52	60	55	52	59	55	52	51																			

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

	0°	45°	90°
0°	784686	784686	784686
5°	780490	777768	776874
10°	720290	717576	714822
15°	628543	623891	619240
20°	541101	530590	530590
25°	458118	457135	455169
30°	348959	367610	355176
35°	237566	251799	249624
40°	149822	158064	156851
45°	92577	93836	95096
50°	47425	53029	51643
55°	6280	18774	7834
60°	1782	1782	1782
65°	0	0	0
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°	185.3	11.6
10°-20°	433.1	27.1
20°-30°	486.1	30.4
30°-40°	330.2	20.6
40°-50°	138.0	8.6
50°-60°	25.8	1.6
60°-70°	0.4	0.0
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°	1104.5	69.1
0°-40°	1434.7	89.7
0°-60°	1598.5	100.0
0°-90°	1598.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1598.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2026	2026	2026	2026	2026	
5°	2007	2005	2000	1996	1998	186
15°	1567	1563	1556	1542	1544	437
25°	1072	1081	1070	1067	1065	485
35°	502	519	532	521	528	318
45°	169	167	171	174	174	134
55°	9	21	28	21	12	19
65°	0	0	0	0	0	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2025.8	2025.8	2025.8	2025.8	2025.8
2.5°	2028.1	2023.5	2021.2	2018.8	2018.8
5°	2007.3	2005.0	2000.3	1995.7	1998.0
7.5°	1940.1	1937.8	1937.8	1928.6	1928.6
10°	1831.3	1831.3	1824.4	1824.4	1817.4
12.5°	1706.3	1697.0	1697.0	1690.1	1685.5
15°	1567.4	1562.8	1555.8	1541.9	1544.2
17.5°	1433.1	1423.8	1410.0	1403.0	1398.4
20°	1312.7	1310.4	1287.2	1282.6	1287.2
22.5°	1199.3	1201.6	1183.1	1178.4	1178.4
25°	1071.9	1081.2	1069.6	1067.3	1065.0
27.5°	935.3	951.5	958.5	942.3	940.0
30°	780.2	808.0	821.9	805.7	794.1
32.5°	629.7	657.5	671.4	659.8	652.9
35°	502.4	518.6	532.5	520.9	527.9
37.5°	393.6	402.8	407.5	407.5	407.5
40°	296.3	305.6	312.6	314.9	310.2
42.5°	224.6	229.2	233.8	236.1	233.8
45°	169.0	166.7	171.3	173.6	173.6
47.5°	122.7	122.7	125.0	127.3	127.3
50°	78.7	83.3	88.0	85.7	85.7
52.5°	34.7	48.6	57.9	48.6	39.4
55°	9.3	20.8	27.8	20.8	11.6
57.5°	2.3	6.9	9.3	6.9	4.6
60°	2.3	2.3	2.3	2.3	2.3
62.5°	2.3	0.0	0.0	0.0	2.3
65°	0.0	0.0	0.0	0.0	0.0
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)