

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: P225318

Luminaire Tested: **LD2B20D010 EU2B20FL409030 2LBDC\*MMS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P225318  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14835)  
Test Lab: INNOVATION CENTER (G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD2B20D010 EU2B20FL409030 2LBDC\*MMS  
Description: 2000 Lumen, 2inch Portfolio LED Downlight  
FLOOD OPTIC  
CAST ROUND TRIM WITH MATTE METALLIC SILVER  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1504.5 lumens  
Efficiency: N/A  
Efficacy: 72.0 lumens/watt  
Spacing Criteria (0/90/45): 0.61 / 0.61 / 0.59  
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')  
CIE Type: Direct

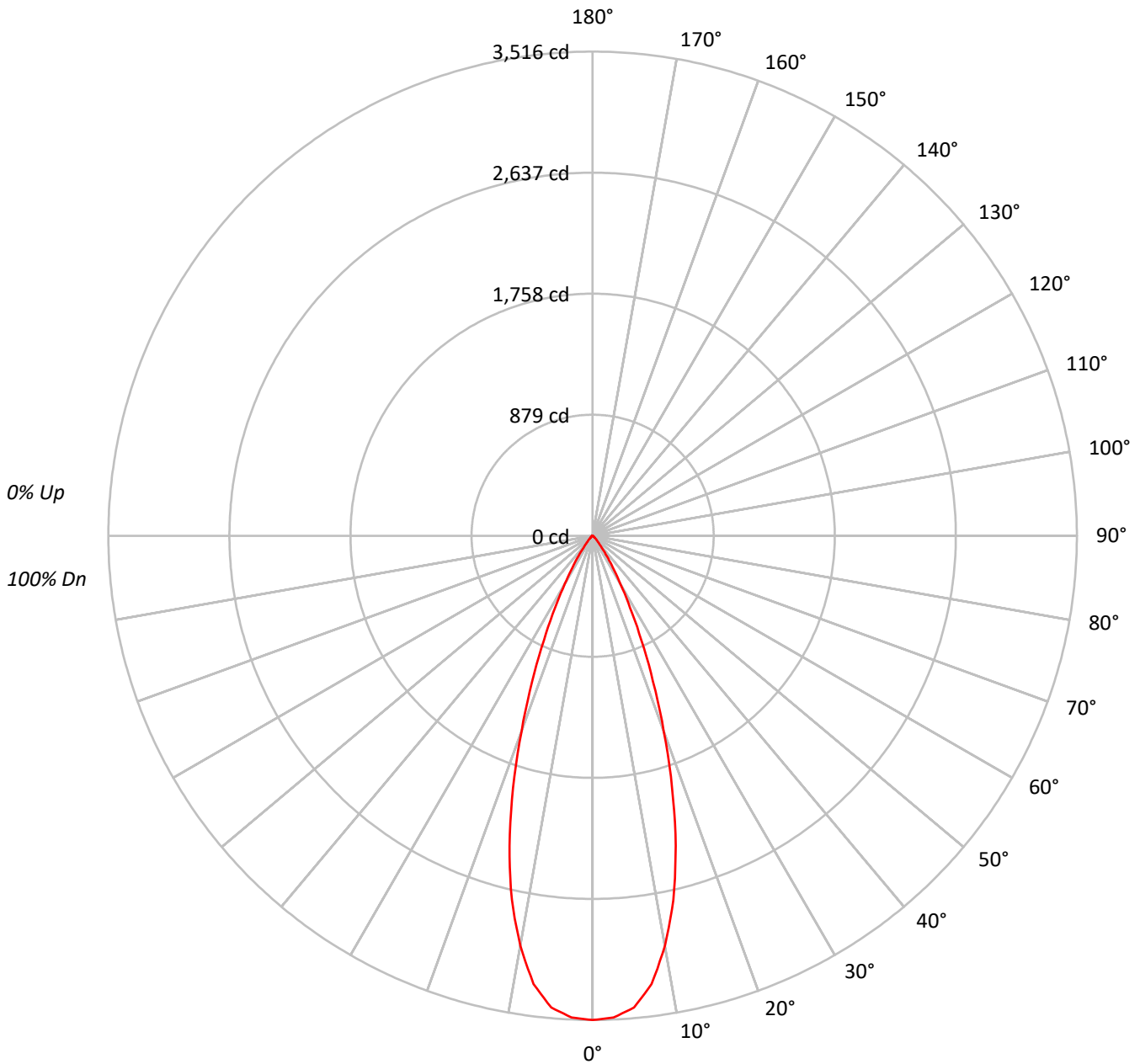
Input Watts (W): 20.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P225318

CATALOG NUMBER: LD2B20D010 EU2B20FL409030 2LBDC\*MMS

### Luminous Intensity Polar Plot





TEST NUMBER: P225318

CATALOG NUMBER: LD2B20D010 EU2B20FL409030 2LBDC\*MMS

**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	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95			
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	94	92	91			
3	105	100	96	93	104	99	95	92	96	93	90	94	91	89	92	90	88	86			
4	101	95	90	87	100	94	90	86	92	88	85	90	87	85	88	86	84	82			
5	98	91	86	82	96	90	85	82	88	84	81	86	83	80	85	82	80	79			
6	94	86	82	78	93	86	81	78	84	80	77	83	79	77	82	79	76	75			
7	90	83	78	74	89	82	77	74	81	77	74	80	76	73	79	76	73	72			
8	87	79	74	71	86	79	74	71	78	74	71	77	73	70	76	73	70	69			
9	84	76	71	68	83	76	71	68	75	71	68	74	70	67	73	70	67	66			
10	81	73	68	65	80	73	68	65	72	68	65	71	68	65	71	67	65	64			

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

	0°
0°	1362025
5°	1337210
10°	1188735
15°	934915
20°	622100
25°	357169
30°	180428
35°	84879
40°	34131
45°	16927
50°	9280
55°	6483
60°	5965
65°	3575
70°	4417
75°	2844
80°	4238
85°	0



TEST NUMBER: P225318

CATALOG NUMBER: LD2B20D010 EU2B20FL409030 2LBDC\*MMS

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	315.0	20.9
10°-20°	631.5	42.0
20°-30°	392.9	26.1
30°-40°	120.8	8.0
40°-50°	26.5	1.8
50°-60°	9.4	0.6
60°-70°	4.8	0.3
70°-80°	2.8	0.2
80°-90°	0.8	0.1
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°	1339.4	89.0
0°-40°	1460.2	97.1
0°-60°	1496.1	99.4
0°-90°	1504.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1504.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3516	
5°	3439	315
15°	2331	632
25°	836	393
35°	180	121
45°	31	27
55°	10	9
65°	4	5
75°	2	3
85°	0	1
90°	0	



TEST NUMBER: P225318

CATALOG NUMBER: LD2B20D010 EU2B20FL409030 2LBDC\*MMS

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3516.3
2.5°	3500.9
5°	3439.1
7.5°	3282.8
10°	3022.3
12.5°	2709.6
15°	2331.4
17.5°	1918.4
20°	1509.2
22.5°	1144.5
25°	835.7
27.5°	588.6
30°	403.4
32.5°	272.1
35°	179.5
37.5°	108.1
40°	67.5
42.5°	46.3
45°	30.9
47.5°	21.2
50°	15.4
52.5°	13.5
55°	9.6
57.5°	7.7
60°	7.7
62.5°	5.8
65°	3.9
67.5°	3.9
70°	3.9
72.5°	3.9
75°	1.9
77.5°	1.9
80°	1.9
82.5°	1.9
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093







— 0°-180°







(END OF REPORT)