

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: P224588

Luminaire Tested: **LD2B20D010 EU2B20FL408050 2LBDL\*GPH**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P224588  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14831)  
Test Lab: INNOVATION CENTER (G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD2B20D010 EU2B20FL408050 2LBDL\*GPH  
Description: 2000 Lumen, 2inch Portfolio LED Downlight  
FLOOD OPTIC  
LENSED SPUN ROUND TRIM WITH GRAPHITE FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1843.6 lumens  
Efficiency: N/A  
Efficacy: 88.2 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

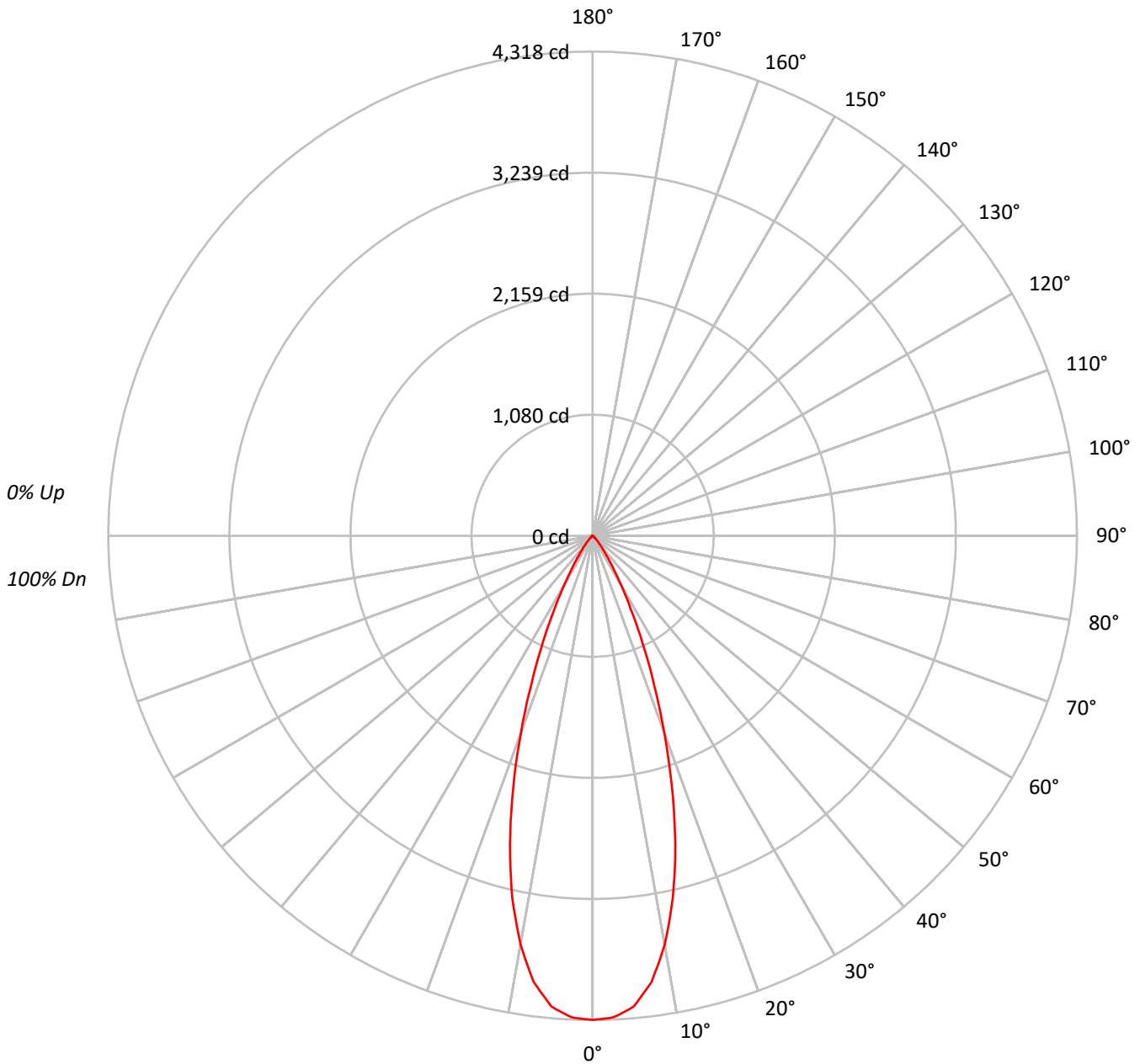
Input Watts (W): 20.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	100	100	100
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95	95	95	95
2	110	106	102	100	108	104	101	98	101	99	96	98	96	94	95	94	92	91	91	91	91
3	106	100	96	93	104	99	95	92	96	93	91	94	92	89	92	90	88	87	87	87	87
4	102	95	91	87	100	94	90	87	92	89	86	90	87	85	89	86	84	83	83	83	83
5	98	91	86	83	96	90	85	82	88	84	81	87	83	81	85	82	80	79	79	79	79
6	94	87	82	78	93	86	81	78	85	81	78	83	80	77	82	79	77	75	75	75	75
7	91	83	78	75	89	82	78	74	81	77	74	80	76	74	79	76	73	72	72	72	72
8	87	80	75	71	86	79	74	71	78	74	71	77	73	71	76	73	70	69	69	69	69
9	84	76	72	68	83	76	71	68	75	71	68	74	70	68	73	70	68	66	66	66	66
10	81	73	69	65	80	73	68	65	72	68	65	72	68	65	71	67	65	64	64	64	64

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

	0°
0°	1672444
5°	1638628
10°	1456037
15°	1142357
20°	768309
25°	447006
30°	223903
35°	104455
40°	48744
45°	20597
50°	9943
55°	6348
60°	3641
65°	0
70°	0
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	385.8	20.9
10°-20°	773.3	41.9
20°-30°	488.9	26.5
30°-40°	152.1	8.3
40°-50°	33.8	1.8
50°-60°	8.6	0.5
60°-70°	1.1	0.1
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°	1647.9	89.4
0°-40°	1800.0	97.6
0°-60°	1842.5	99.9
0°-90°	1843.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1843.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4318	
5°	4214	386
15°	2849	773
25°	1046	489
35°	221	152
45°	38	34
55°	9	9
65°	0	1
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4317.7
2.5°	4298.9
5°	4214.3
7.5°	4014.5
10°	3701.9
12.5°	3307.0
15°	2848.7
17.5°	2352.8
20°	1863.9
22.5°	1424.3
25°	1045.9
27.5°	733.3
30°	500.6
32.5°	331.4
35°	220.9
37.5°	148.1
40°	96.4
42.5°	58.8
45°	37.6
47.5°	25.9
50°	16.5
52.5°	11.8
55°	9.4
57.5°	7.1
60°	4.7
62.5°	2.4
65°	0.0
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)