

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: P224955

Luminaire Tested: **LD2B20D010 EU2B20FL408040 2LBD\*H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P224955  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (156)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD2B20D010 EU2B20FL408040 2LBD\*H  
Description: 2000 Lumen, 2inch Portfolio LED Downlight  
FLOOD OPTIC  
SPUN ROUND TRIM WITH HAZE FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1952.6 lumens  
Efficiency: N/A  
Efficacy: 93.4 lumens/watt  
Spacing Criteria (0/90/45): 0.6 / 0.6 / 0.59  
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')  
CIE Type: Direct

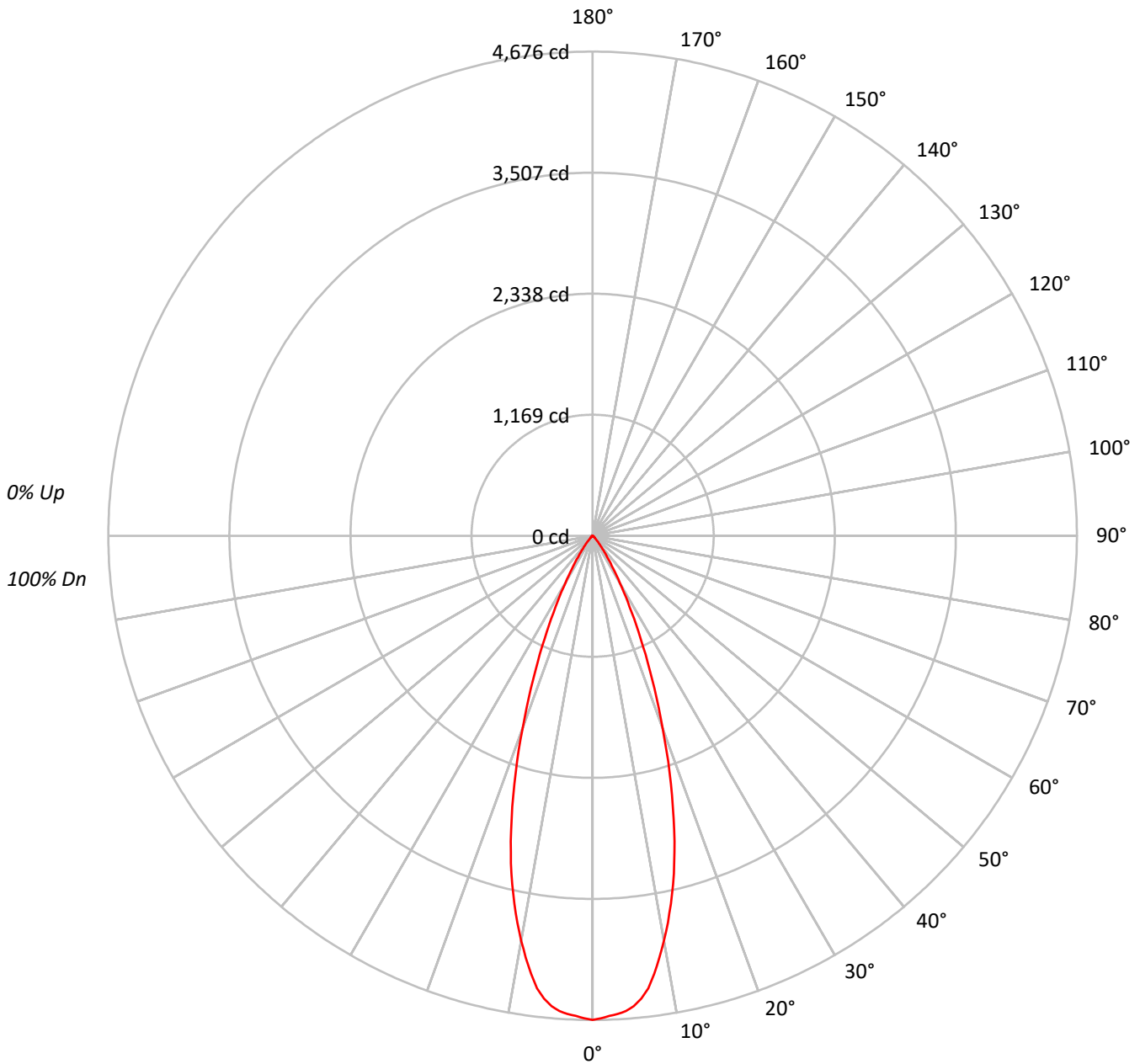
Input Watts (W): 20.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°
0°	1811114
5°	1773200
10°	1561683
15°	1225246
20°	813651
25°	467051
30°	234235
35°	108191
40°	43991
45°	19666
50°	10244
55°	6416
60°	2944
65°	0
70°	0
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	416.5	21.3
10°-20°	827.0	42.4
20°-30°	513.8	26.3
30°-40°	155.0	7.9
40°-50°	31.7	1.6
50°-60°	8.2	0.4
60°-70°	0.5	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°	1757.3	90.0
0°-40°	1912.3	97.9
0°-60°	1952.1	100.0
0°-90°	1952.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1952.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4676	
5°	4560	417
15°	3055	827
25°	1093	514
35°	229	155
45°	36	32
55°	10	8
65°	0	0
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4675.7
1°	4660.6
2°	4639.8
3°	4624.6
4°	4602.0
5°	4560.4
6°	4494.2
7°	4403.4
8°	4273.0
9°	4125.5
10°	3970.5
11°	3806.0
12°	3633.9
13°	3454.3
14°	3257.7
15°	3055.4
17.5°	2512.7
20°	1973.9
22.5°	1497.4
25°	1092.8
27.5°	771.4
30°	523.7
32.5°	344.1
35°	228.8
37.5°	141.8
40°	87.0
42.5°	56.7
45°	35.9
47.5°	22.7
50°	17.0
52.5°	11.3
55°	9.5
57.5°	5.7
60°	3.8
62.5°	0.0
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



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**CANDELA DISTRIBUTION (continued):**

0°  
90° | 0.0



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— 0°-180°







85°		0.0
87.5°		0.0



(END OF REPORT)