

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: P224436

Luminaire Tested: **LD2B20D010 EU2B20FL408040 2LBDSQC\*MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P224436  
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 EU2B20FL408040 2LBDSQC\*MW  
Description: 2000 Lumen, 2inch Portfolio LED Downlight  
FLOOD OPTIC  
SQUARE CAST TRIM WITH MATTE WHITE FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1955.1 lumens  
Efficiency: N/A  
Efficacy: 93.5 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

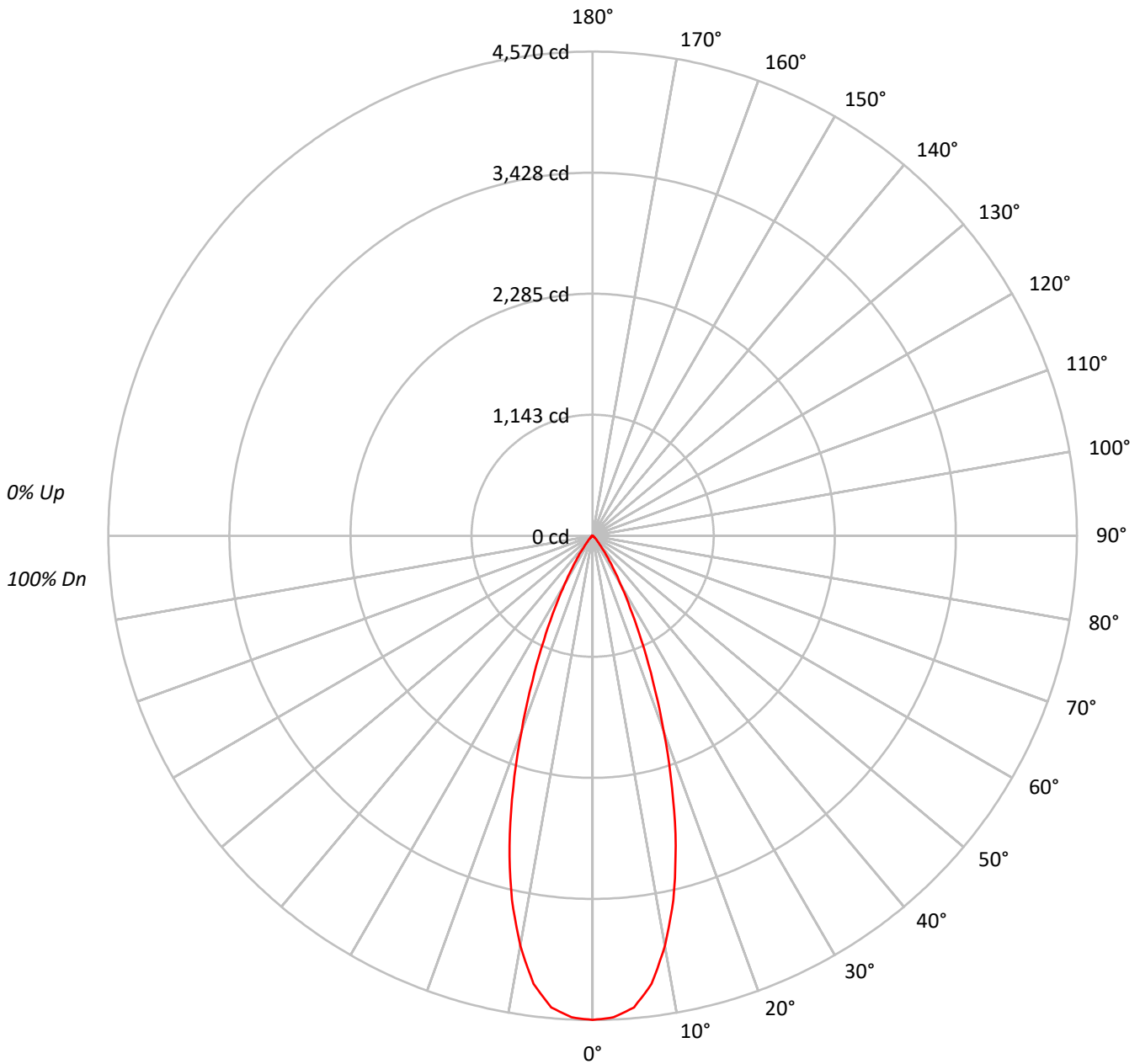
Input Watts (W): 20.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			
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	87	82	78	93	86	81	78	84	80	77	83	80	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°	1770016
5°	1737739
10°	1544770
15°	1214900
20°	808416
25°	464144
30°	234458
35°	110271
40°	44396
45°	21966
50°	12112
55°	8441
60°	7747
65°	4583
70°	5663
75°	3741
80°	5577
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	409.3	20.9
10°-20°	820.7	42.0
20°-30°	510.6	26.1
30°-40°	157.0	8.0
40°-50°	34.5	1.8
50°-60°	12.3	0.6
60°-70°	6.2	0.3
70°-80°	3.6	0.2
80°-90°	1.0	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°	1740.5	89.0
0°-40°	1897.5	97.1
0°-60°	1944.2	99.4
0°-90°	1955.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1955.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4570	
5°	4469	409
15°	3030	821
25°	1086	511
35°	233	157
45°	40	35
55°	12	12
65°	5	6
75°	2	4
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4569.6
2.5°	4549.5
5°	4469.2
7.5°	4266.1
10°	3927.5
12.5°	3521.2
15°	3029.6
17.5°	2492.9
20°	1961.2
22.5°	1487.2
25°	1086.0
27.5°	764.9
30°	524.2
32.5°	353.6
35°	233.2
37.5°	140.4
40°	87.8
42.5°	60.2
45°	40.1
47.5°	27.6
50°	20.1
52.5°	17.6
55°	12.5
57.5°	10.0
60°	10.0
62.5°	7.5
65°	5.0
67.5°	5.0
70°	5.0
72.5°	5.0
75°	2.5
77.5°	2.5
80°	2.5
82.5°	2.5
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)