

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: P224287

Luminaire Tested: **LD2B20D010 EU2B20FL409730 2LBDSQLC\*MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P224287  
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 EU2B20FL409730 2LBDSQLC\*MW  
Description: 2000 Lumen, 2inch Portfolio LED Downlight  
FLOOD OPTIC  
LENSED SQUARE CAST TRIM WITH MATTE WHITE FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1216.2 lumens  
Efficiency: N/A  
Efficacy: 58.2 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

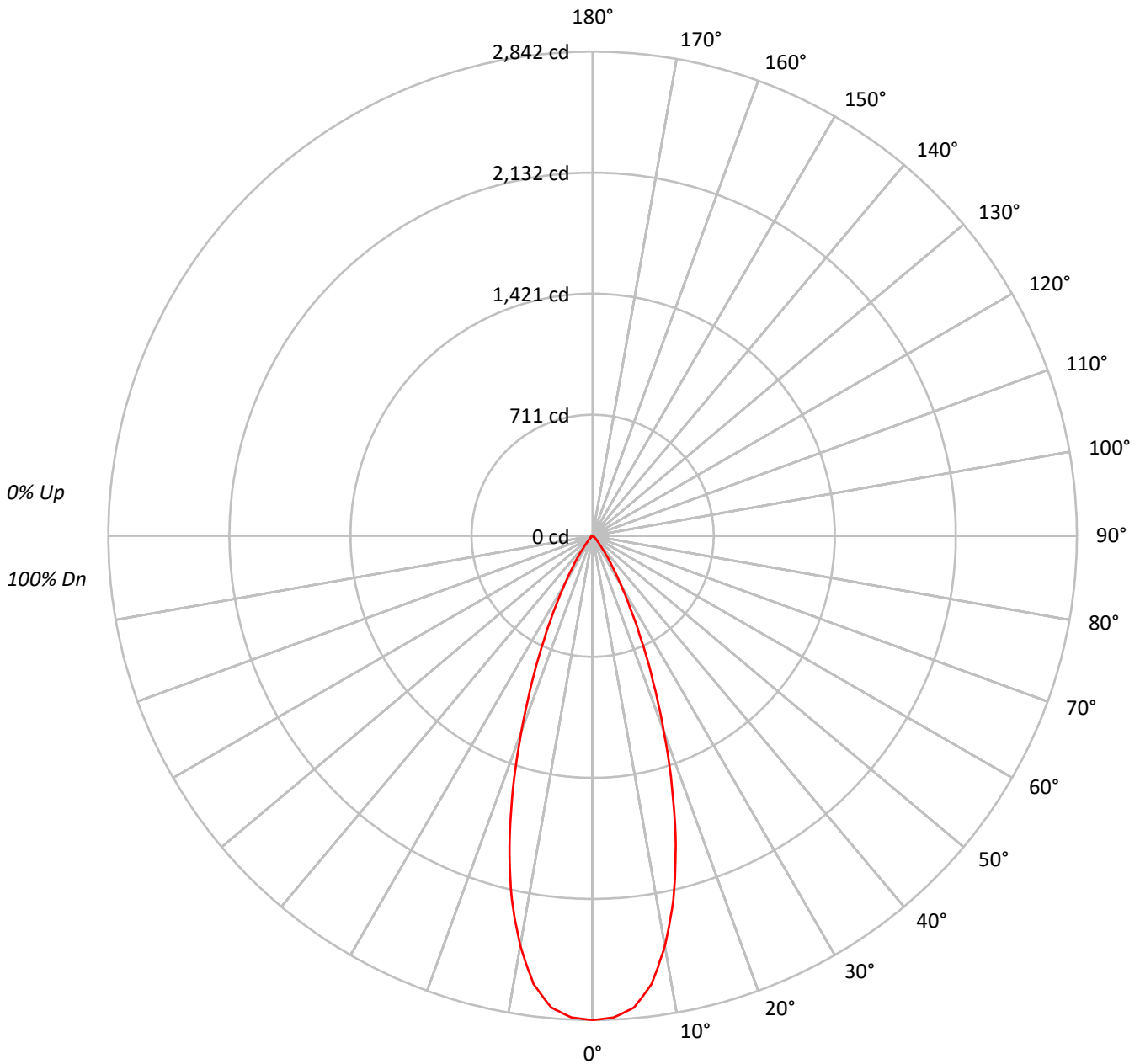
Input Watts (W): 20.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	1101031
5°	1080974
10°	960924
15°	755744
20°	502890
25°	288701
30°	145854
35°	68612
40°	27608
45°	13695
50°	7533
55°	5267
60°	4803
65°	2841
70°	3511
75°	2395
80°	3569
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	254.6	20.9
10°-20°	510.5	42.0
20°-30°	317.6	26.1
30°-40°	97.7	8.0
40°-50°	21.5	1.8
50°-60°	7.6	0.6
60°-70°	3.8	0.3
70°-80°	2.3	0.2
80°-90°	0.7	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°	1082.7	89.0
0°-40°	1180.4	97.1
0°-60°	1209.4	99.4
0°-90°	1216.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1216.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2842	
5°	2780	255
15°	1885	510
25°	676	318
35°	145	98
45°	25	21
55°	8	8
65°	3	4
75°	2	2
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2842.5
2.5°	2830.0
5°	2780.1
7.5°	2653.7
10°	2443.1
12.5°	2190.4
15°	1884.6
17.5°	1550.7
20°	1220.0
22.5°	925.1
25°	675.5
27.5°	475.8
30°	326.1
32.5°	220.0
35°	145.1
37.5°	87.4
40°	54.6
42.5°	37.4
45°	25.0
47.5°	17.2
50°	12.5
52.5°	10.9
55°	7.8
57.5°	6.2
60°	6.2
62.5°	4.7
65°	3.1
67.5°	3.1
70°	3.1
72.5°	3.1
75°	1.6
77.5°	1.6
80°	1.6
82.5°	1.6
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)