

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: P224263

Luminaire Tested: **LD2B20D010 EU2B20FL409040 2LBDSQLC\*MMS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P224263  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14836)  
Test Lab: INNOVATION CENTER (G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD2B20D010 EU2B20FL409040 2LBDSQLC\*MMS  
Description: 2000 Lumen, 2inch Portfolio LED Downlight  
FLOOD OPTIC  
LENSED SQUARE CAST TRIM WITH MATTE METALLIC SILVER  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1402.7 lumens  
Efficiency: N/A  
Efficacy: 67.1 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

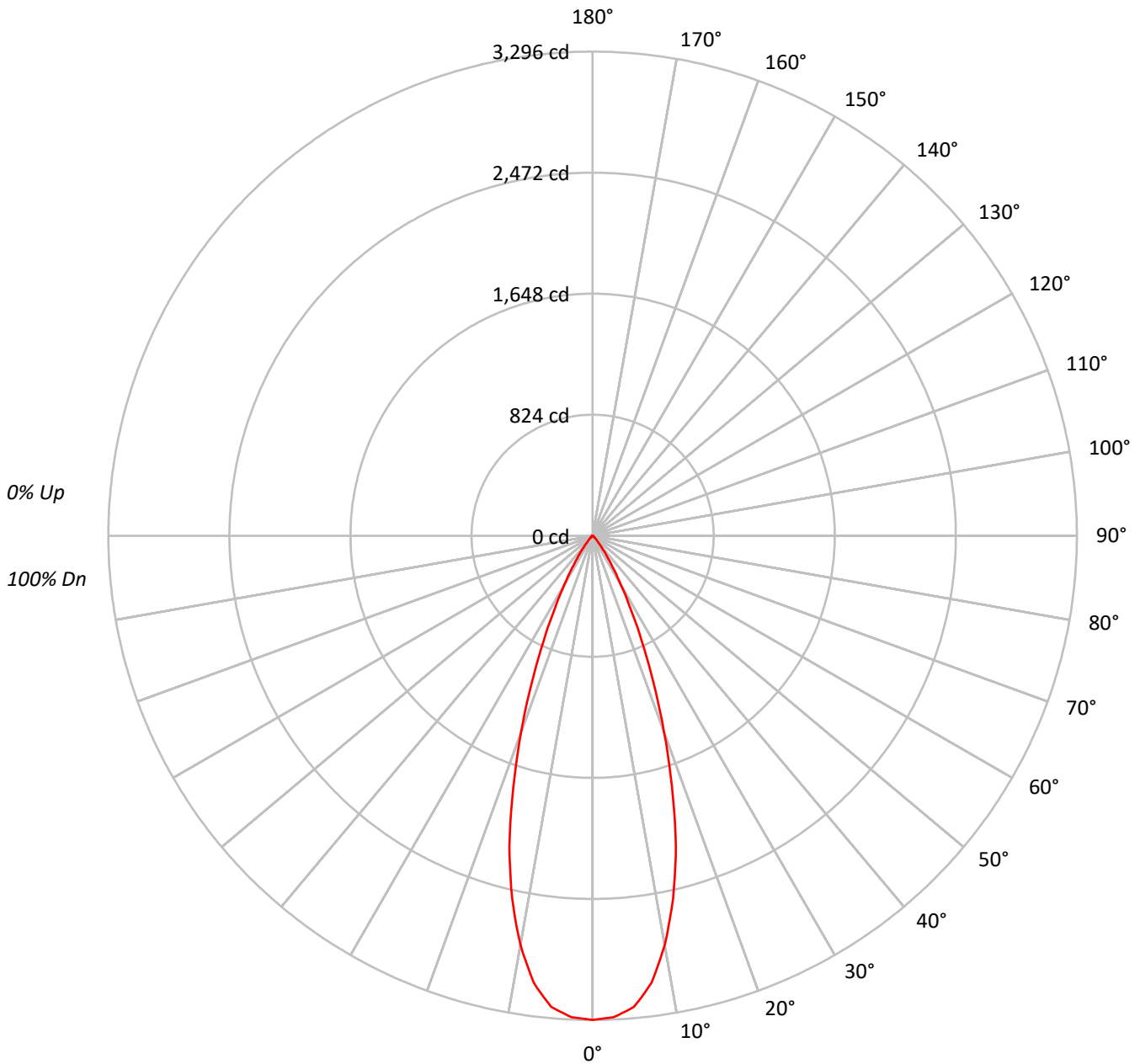
Input Watts (W): 20.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
RC	80									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	100	108	104	101	99	101	99	96	98	96	94	95	94	92	91																			
3	106	100	96	93	104	99	95	92	97	93	91	94	92	89	92	90	88	87																			
4	102	95	91	87	100	94	90	87	92	89	86	90	87	85	89	86	84	83																			
5	98	91	86	83	96	90	86	82	88	85	82	87	83	81	85	83	80	79																			
6	94	87	82	78	93	86	82	78	85	81	78	83	80	77	82	79	77	76																			
7	91	83	78	75	89	82	78	75	81	77	74	80	77	74	79	76	73	72																			
8	87	80	75	71	86	79	75	71	78	74	71	77	73	71	76	73	70	69																			
9	84	76	72	68	83	76	71	68	75	71	68	74	71	68	74	70	68	67																			
10	81	74	69	66	81	73	69	66	72	68	65	72	68	65	71	68	65	64																			

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

	0°
0°	1276809
5°	1252291
10°	1112431
15°	877891
20°	585496
25°	336996
30°	170722
35°	80008
40°	32766
45°	14790
50°	7593
55°	4862
60°	2789
65°	0
70°	0
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	294.8	21.0
10°-20°	591.6	42.2
20°-30°	370.5	26.4
30°-40°	114.7	8.2
40°-50°	23.7	1.7
50°-60°	6.6	0.5
60°-70°	0.9	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°	1256.9	89.6
0°-40°	1371.5	97.8
0°-60°	1401.8	99.9
0°-90°	1402.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1402.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3296	
5°	3221	295
15°	2189	592
25°	788	371
35°	169	115
45°	27	24
55°	7	7
65°	0	1
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3296.3
2.5°	3280.1
5°	3220.7
7.5°	3069.5
10°	2828.3
12.5°	2531.2
15°	2189.2
17.5°	1794.9
20°	1420.4
22.5°	1080.2
25°	788.5
27.5°	554.5
30°	381.7
32.5°	255.6
35°	169.2
37.5°	106.2
40°	64.8
42.5°	41.4
45°	27.0
47.5°	18.0
50°	12.6
52.5°	9.0
55°	7.2
57.5°	5.4
60°	3.6
62.5°	1.8
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)