

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: P223411

Luminaire Tested: **LD2B20D010 EU2B20NFL258030 2LBDSQLC*MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P223411
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (155)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD2B20D010 EU2B20NFL258030 2LBDSQLC*MMS
Description: 2000 Lumen, 2inch Portfolio LED Downlight
NARROW FLOOD OPTIC
LENSED SQUARE CAST TRIM WITH MATTE METALLIC SILVER
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1632.9 lumens
Efficiency: N/A
Efficacy: 78.1 lumens/watt
Spacing Criteria (0/90/45): 0.39 / 0.39 / 0.35
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

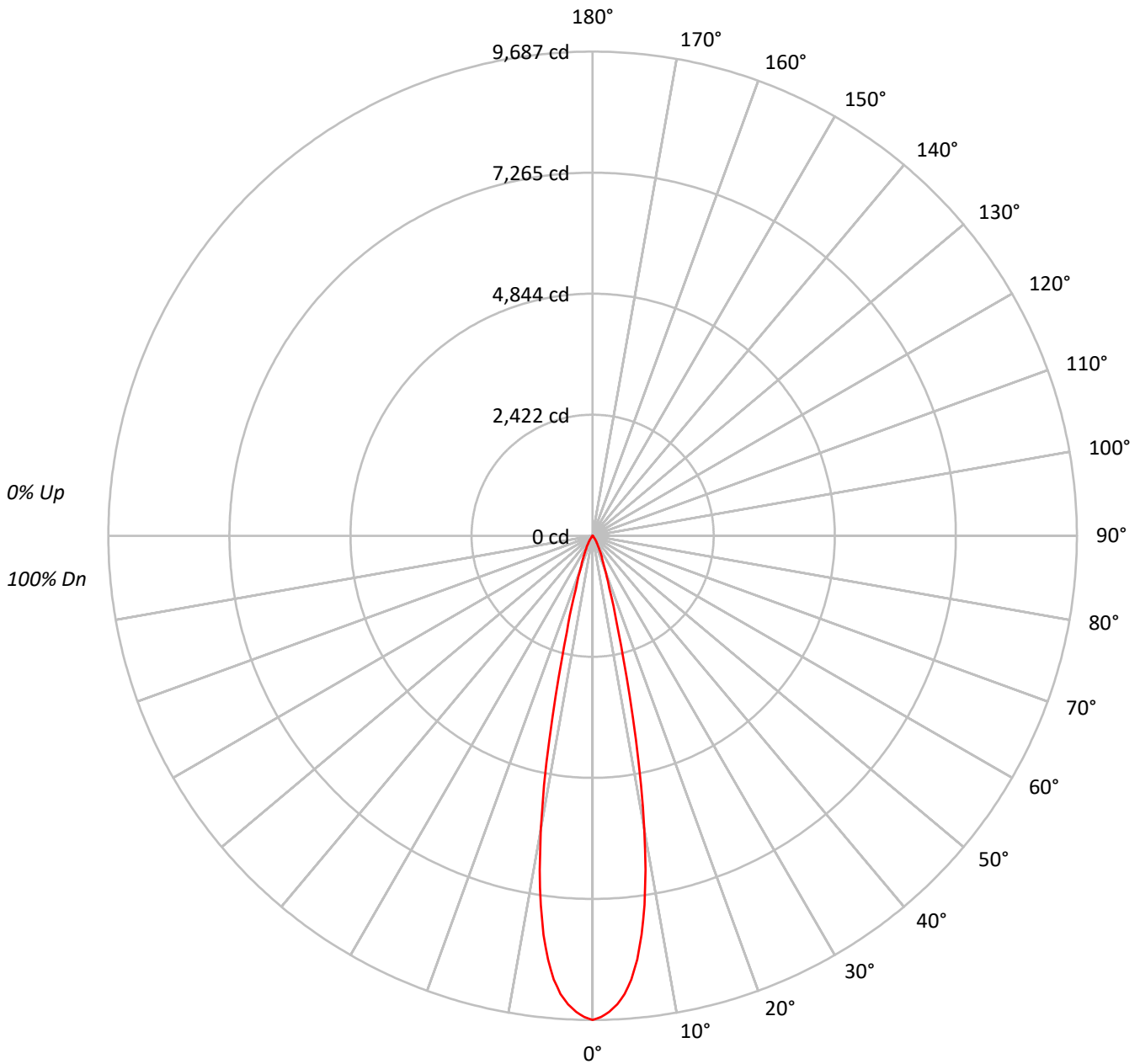
Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0																			
RCR																																														
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100									100																			
1	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97									97																			
2	112	109	106	104	110	107	104	102	104	102	100	101	99	98	98	97	96	95									95																			
3	109	105	101	99	107	103	100	98	101	98	96	99	97	95	96	95	93	92									92																			
4	106	101	97	95	104	100	97	94	98	95	93	96	94	92	95	93	91	90									90																			
5	103	98	94	91	102	97	94	91	95	92	90	94	91	89	93	90	89	88									88																			
6	101	95	91	89	99	94	91	88	93	90	88	92	89	87	91	88	87	86									86																			
7	98	92	89	86	97	92	88	86	91	88	85	90	87	85	89	86	85	84									84																			
8	96	90	86	84	95	90	86	84	89	86	83	88	85	83	87	85	83	82									82																			
9	94	88	84	82	93	88	84	82	87	84	82	86	83	81	85	83	81	80									80																			
10	92	86	82	80	91	86	82	80	85	82	80	84	82	80	84	81	79	79									79																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	3752376
5°	3464630
10°	2345100
15°	797850
20°	293037
25°	155356
30°	79837
35°	37262
40°	12186
45°	6190
50°	2892
55°	1081
60°	1240
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	758.0	46.4
10°-20°	637.3	39.0
20°-30°	174.9	10.7
30°-40°	51.0	3.1
40°-50°	9.4	0.6
50°-60°	2.1	0.1
60°-70°	0.2	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°	1570.1	96.2
0°-40°	1621.1	99.3
0°-60°	1632.7	100.0
0°-90°	1632.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1632.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9687	
5°	8910	758
15°	1990	637
25°	364	175
35°	79	51
45°	11	9
55°	2	2
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	9687.4
1°	9631.1
2°	9531.4
3°	9388.2
4°	9192.0
5°	8910.5
6°	8526.1
7°	8045.2
8°	7458.1
9°	6764.9
10°	5962.3
11°	5082.5
12°	4167.4
13°	3294.0
14°	2549.3
15°	1989.6
17.5°	1122.7
20°	710.9
22.5°	506.6
25°	363.5
27.5°	257.3
30°	178.5
32.5°	125.5
35°	78.8
37.5°	32.2
40°	24.1
42.5°	17.7
45°	11.3
47.5°	6.4
50°	4.8
52.5°	3.2
55°	1.6
57.5°	1.6
60°	1.6
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)