

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: P222528

Luminaire Tested: **LD2B20D010 EU2B20NFL259040 2LBDLC*MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P222528
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 EU2B20NFL259040 2LBDLC*MMS
Description: 2000 Lumen, 2inch Portfolio LED Downlight
NARROW FLOOD OPTIC
LENSED CAST ROUND TRIM WITH MATTE METALLIC SILVER
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1477.8 lumens
Efficiency: N/A
Efficacy: 70.7 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

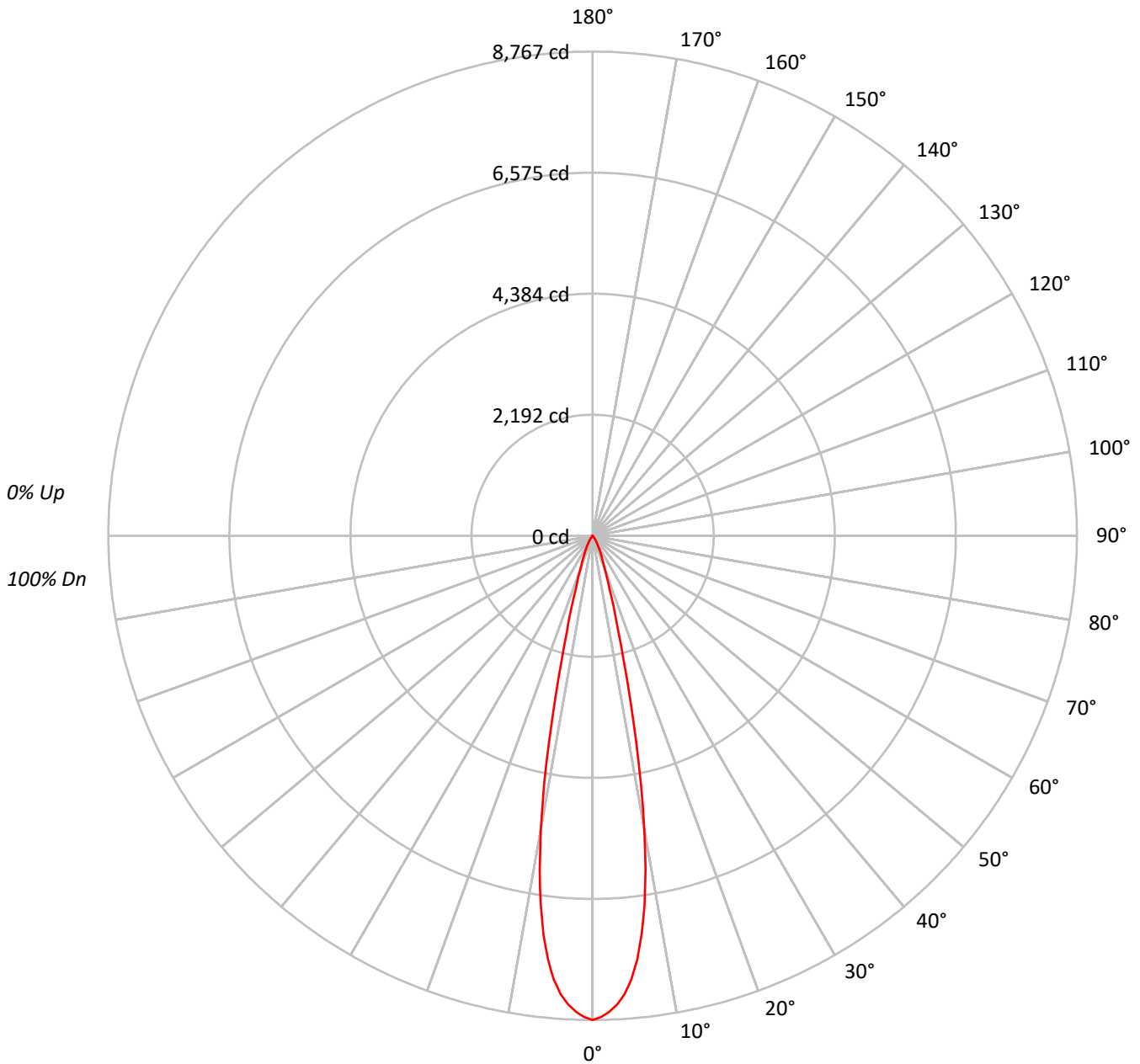
Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	99	97
1	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97	97	96	95
2	112	109	106	104	110	107	104	102	104	102	100	101	99	98	98	97	96	95	95	94	92
3	109	105	101	99	107	103	100	98	101	98	96	99	97	95	96	95	93	92	92	91	90
4	106	101	97	95	104	100	97	94	98	95	93	96	94	92	95	93	91	90	89	88	86
5	103	98	94	91	102	97	94	91	95	92	90	94	91	89	93	90	89	88	87	86	84
6	101	95	91	89	99	94	91	88	93	90	88	92	89	87	91	88	87	86	85	84	82
7	98	92	89	86	97	92	88	86	91	88	85	90	87	85	89	86	85	84	83	82	80
8	96	90	86	84	95	90	86	84	89	86	83	88	85	83	87	85	83	82	81	80	79
9	94	88	84	82	93	88	84	82	87	84	82	86	83	81	85	83	81	80	79	78	77
10	92	86	82	80	91	86	82	80	85	82	80	84	82	80	84	81	79	78	77	76	75

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	3395940
5°	3135567
10°	2122362
15°	722059
20°	265213
25°	140611
30°	72279
35°	33715
40°	11023
45°	5587
50°	2651
55°	1013
60°	1162
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	686.0	46.4
10°-20°	576.8	39.0
20°-30°	158.3	10.7
30°-40°	46.1	3.1
40°-50°	8.5	0.6
50°-60°	2.0	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°	1421.0	96.2
0°-40°	1467.1	99.3
0°-60°	1477.6	100.0
0°-90°	1477.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1477.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8767	
5°	8064	686
15°	1801	577
25°	329	158
35°	71	46
45°	10	9
55°	2	2
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	8767.2
1°	8716.3
2°	8626.0
3°	8496.5
4°	8318.9
5°	8064.2
6°	7716.3
7°	7281.0
8°	6749.7
9°	6122.4
10°	5396.0
11°	4599.8
12°	3771.5
13°	2981.1
14°	2307.2
15°	1800.6
17.5°	1016.0
20°	643.4
22.5°	458.5
25°	329.0
27.5°	232.9
30°	161.6
32.5°	113.5
35°	71.3
37.5°	29.1
40°	21.8
42.5°	16.0
45°	10.2
47.5°	5.8
50°	4.4
52.5°	2.9
55°	1.5
57.5°	1.5
60°	1.5
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)