

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: P223469

Luminaire Tested: **LD2B20D010 EU2B20NFL258027 2LBD*B**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P223469
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 EU2B20NFL258027 2LBD*B
Description: 2000 Lumen, 2inch Portfolio LED Downlight
NARROW FLOOD OPTIC
SPUN ROUND TRIM WITH BLACK FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1807.3 lumens
Efficiency: N/A
Efficacy: 86.5 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

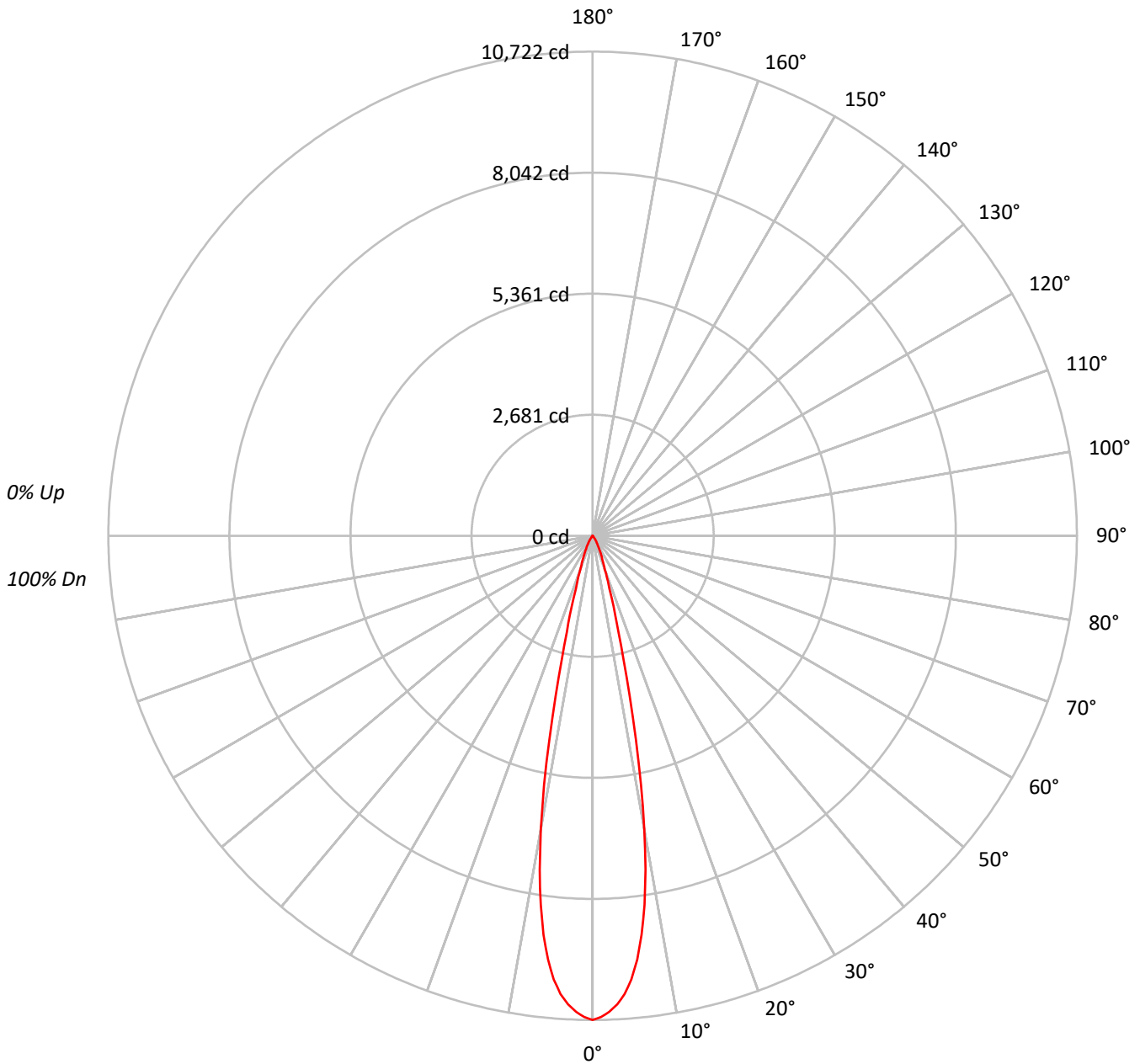
Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P223469

CATALOG NUMBER: LD2B20D010 EU2B20NFL258027 2LBD*B

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	4153124
5°	3834676
10°	2595567
15°	883064
20°	324323
25°	171939
30°	88380
35°	41234
40°	13501
45°	6847
50°	3194
55°	1216
60°	1394
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	838.9	46.4
10°-20°	705.4	39.0
20°-30°	193.6	10.7
30°-40°	56.4	3.1
40°-50°	10.4	0.6
50°-60°	2.4	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°	1737.8	96.2
0°-40°	1794.3	99.3
0°-60°	1807.1	100.0
0°-90°	1807.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1807.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10722	
5°	9862	839
15°	2202	705
25°	402	194
35°	87	56
45°	12	10
55°	2	2
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CATALOG NUMBER: LD2B20D010 EU2B20NFL258027 2LBD*B

CANDELA DISTRIBUTION (FULL):

	0°
0°	10722.0
1°	10659.7
2°	10549.4
3°	10390.9
4°	10173.7
5°	9862.2
6°	9436.7
7°	8904.5
8°	8254.7
9°	7487.4
10°	6599.1
11°	5625.4
12°	4612.4
13°	3645.8
14°	2821.6
15°	2202.1
17.5°	1242.6
20°	786.8
22.5°	560.8
25°	402.3
27.5°	284.8
30°	197.6
32.5°	138.9
35°	87.2
37.5°	35.6
40°	26.7
42.5°	19.6
45°	12.5
47.5°	7.1
50°	5.3
52.5°	3.6
55°	1.8
57.5°	1.8
60°	1.8
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



TEST NUMBER: P223469

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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)