

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: P224679

Luminaire Tested: **LD2B20D010 EU2B20FL408050 2LBDLC*MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P224679
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 EU2B20FL408050 2LBDLC*MW
Description: 2000 Lumen, 2inch Portfolio LED Downlight
FLOOD OPTIC
LENSED CAST ROUND TRIM WITH MATTE WHITE FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1802.3 lumens
Efficiency: N/A
Efficacy: 86.2 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

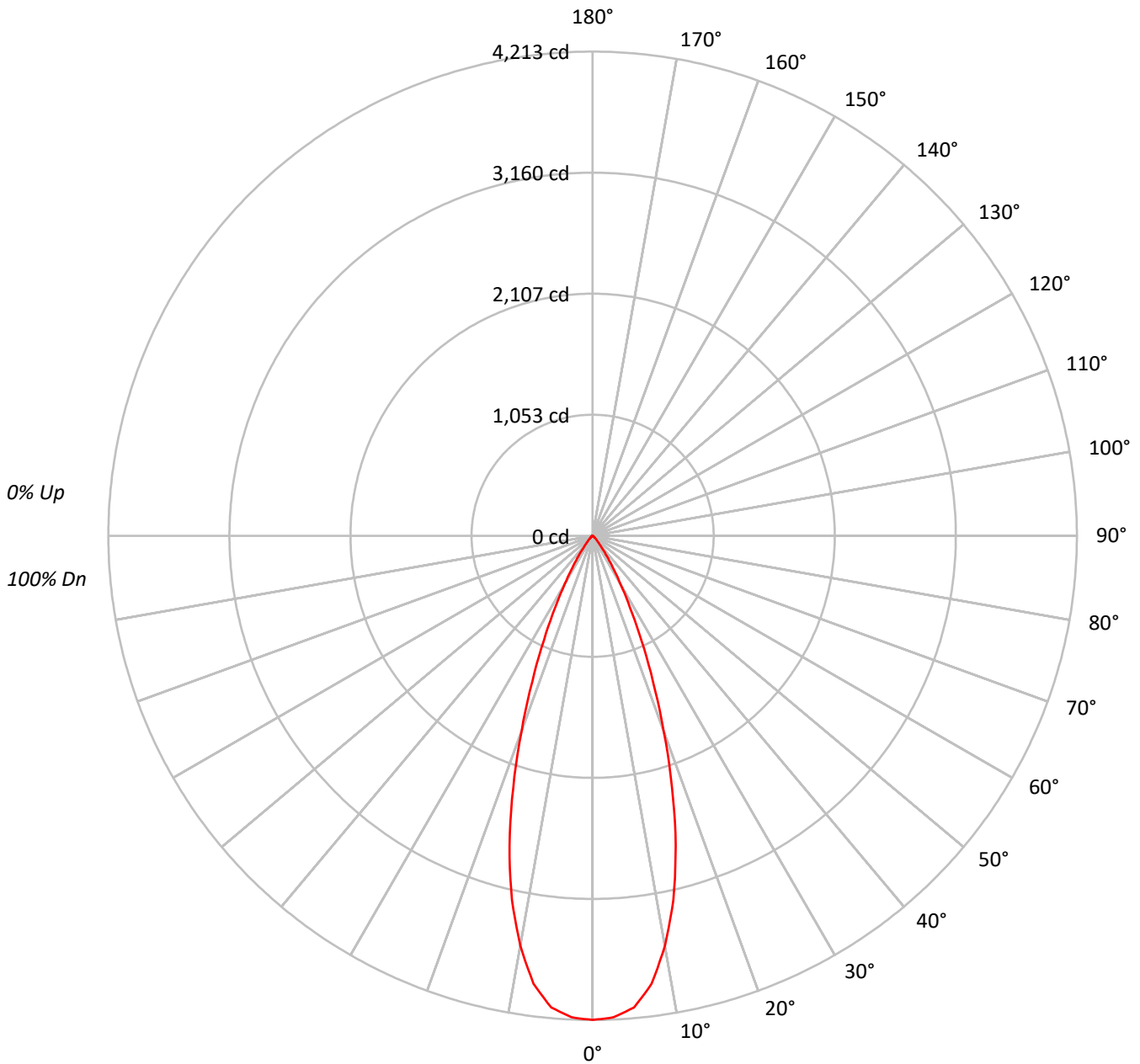
Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P224679

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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			
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	87	82	78	93	86	81	78	84	80	77	83	80	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°	1631734
5°	1602000
10°	1424099
15°	1120021
20°	745267
25°	427859
30°	216120
35°	101665
40°	40907
45°	20268
50°	11148
55°	7834
60°	7127
65°	4216
70°	5210
75°	3442
80°	5130
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	377.3	20.9
10°-20°	756.6	42.0
20°-30°	470.7	26.1
30°-40°	144.7	8.0
40°-50°	31.8	1.8
50°-60°	11.3	0.6
60°-70°	5.7	0.3
70°-80°	3.3	0.2
80°-90°	0.9	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°	1604.6	89.0
0°-40°	1749.3	97.1
0°-60°	1792.4	99.4
0°-90°	1802.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1802.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4213	
5°	4120	377
15°	2793	757
25°	1001	471
35°	215	145
45°	37	32
55°	12	11
65°	5	6
75°	2	3
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4212.6
2.5°	4194.1
5°	4120.1
7.5°	3932.8
10°	3620.7
12.5°	3246.1
15°	2793.0
17.5°	2298.2
20°	1808.0
22.5°	1371.1
25°	1001.1
27.5°	705.2
30°	483.2
32.5°	326.0
35°	215.0
37.5°	129.5
40°	80.9
42.5°	55.5
45°	37.0
47.5°	25.4
50°	18.5
52.5°	16.2
55°	11.6
57.5°	9.2
60°	9.2
62.5°	6.9
65°	4.6
67.5°	4.6
70°	4.6
72.5°	4.6
75°	2.3
77.5°	2.3
80°	2.3
82.5°	2.3
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)