

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: P224686

Luminaire Tested: **LD2B20D010 EU2B20FL409727 2LBDLC*MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P224686
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 EU2B20FL409727 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: 1199.2 lumens
Efficiency: N/A
Efficacy: 57.4 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

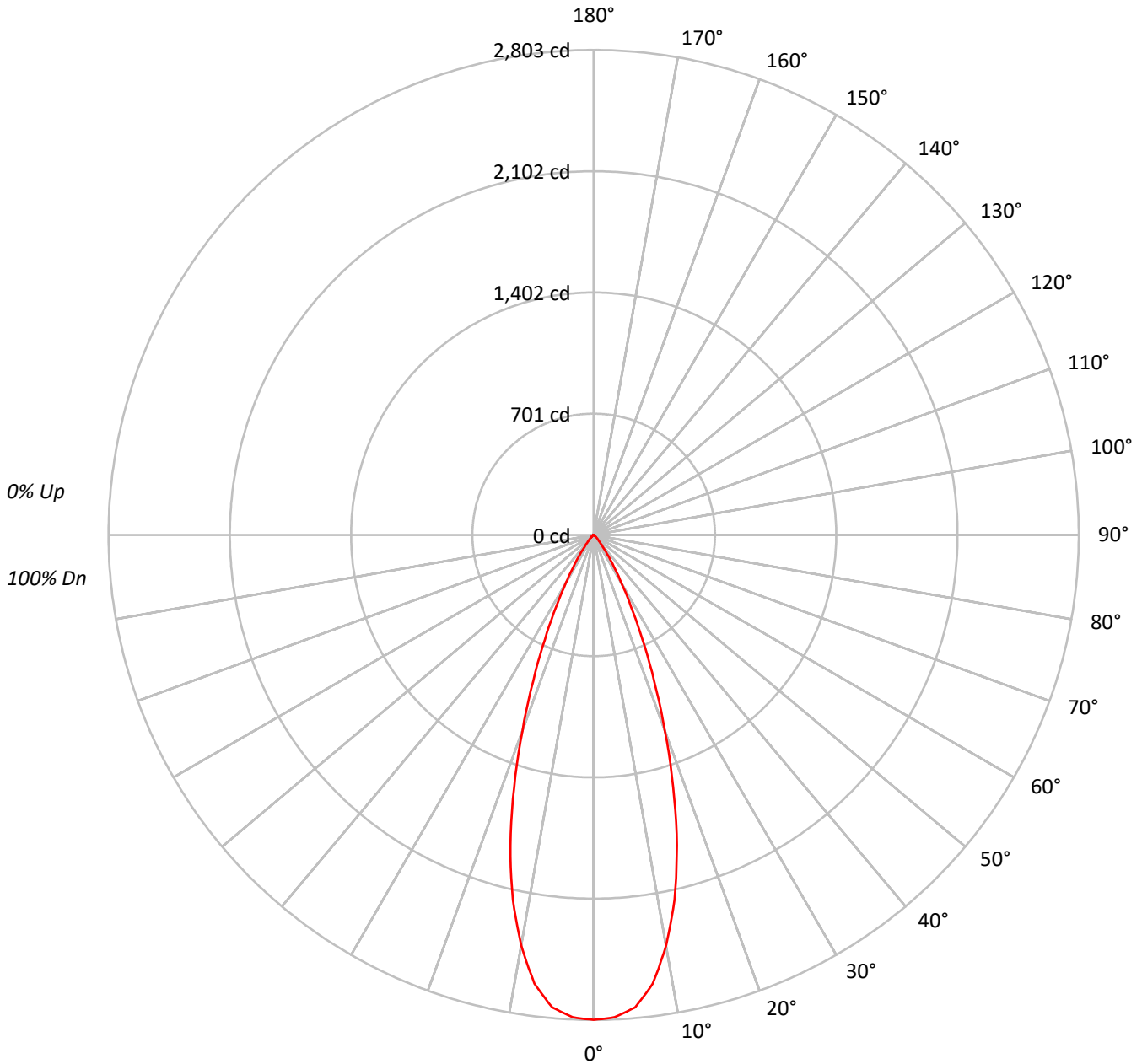
Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95			95
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	94	92	91			91
3	105	100	96	93	104	99	95	92	96	93	90	94	91	89	92	90	88	86			86
4	101	95	90	87	100	94	90	86	92	88	85	90	87	85	88	86	84	82			82
5	98	91	86	82	96	90	85	82	88	84	81	86	83	80	85	82	80	79			79
6	94	86	82	78	93	86	81	78	84	80	77	83	79	77	82	79	76	75			75
7	90	83	78	74	89	82	77	74	81	77	74	80	76	73	79	76	73	72			72
8	87	79	74	71	86	79	74	71	78	74	71	77	73	70	76	73	70	69			69
9	84	76	71	68	83	76	71	68	75	71	68	74	70	67	73	70	67	66			66
10	81	73	68	65	80	73	68	65	72	68	65	71	68	65	71	67	65	64			64

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1085653
5°	1065888
10°	947511
15°	745197
20°	495883
25°	284684
30°	143797
35°	67667
40°	27204
45°	13476
50°	7412
55°	5200
60°	4803
65°	2841
70°	3511
75°	2245
80°	3346
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.1	20.9
10°-20°	503.4	42.0
20°-30°	313.2	26.1
30°-40°	96.3	8.0
40°-50°	21.1	1.8
50°-60°	7.6	0.6
60°-70°	3.8	0.3
70°-80°	2.2	0.2
80°-90°	0.6	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°	1067.6	89.0
0°-40°	1163.9	97.1
0°-60°	1192.6	99.4
0°-90°	1199.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1199.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2803	
5°	2741	251
15°	1858	503
25°	666	313
35°	143	96
45°	25	21
55°	8	8
65°	3	4
75°	2	2
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2802.8
2.5°	2790.5
5°	2741.3
7.5°	2616.7
10°	2409.0
12.5°	2159.8
15°	1858.3
17.5°	1529.1
20°	1203.0
22.5°	912.2
25°	666.1
27.5°	469.2
30°	321.5
32.5°	216.9
35°	143.1
37.5°	86.1
40°	53.8
42.5°	36.9
45°	24.6
47.5°	16.9
50°	12.3
52.5°	10.8
55°	7.7
57.5°	6.2
60°	6.2
62.5°	4.6
65°	3.1
67.5°	3.1
70°	3.1
72.5°	3.1
75°	1.5
77.5°	1.5
80°	1.5
82.5°	1.5
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)