

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: P224989

Luminaire Tested: **LD2B20D010 EU2B20FL409030 2LBDL*LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P224989
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (152)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD2B20D010 EU2B20FL409030 2LBDL*LI
Description: 2000 Lumen, 2inch Portfolio LED Downlight
FLOOD OPTIC
LENSED SPUN ROUND TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1414.8 lumens
Efficiency: N/A
Efficacy: 67.7 lumens/watt
Spacing Criteria (0/90/45): 0.59 / 0.59 / 0.58
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

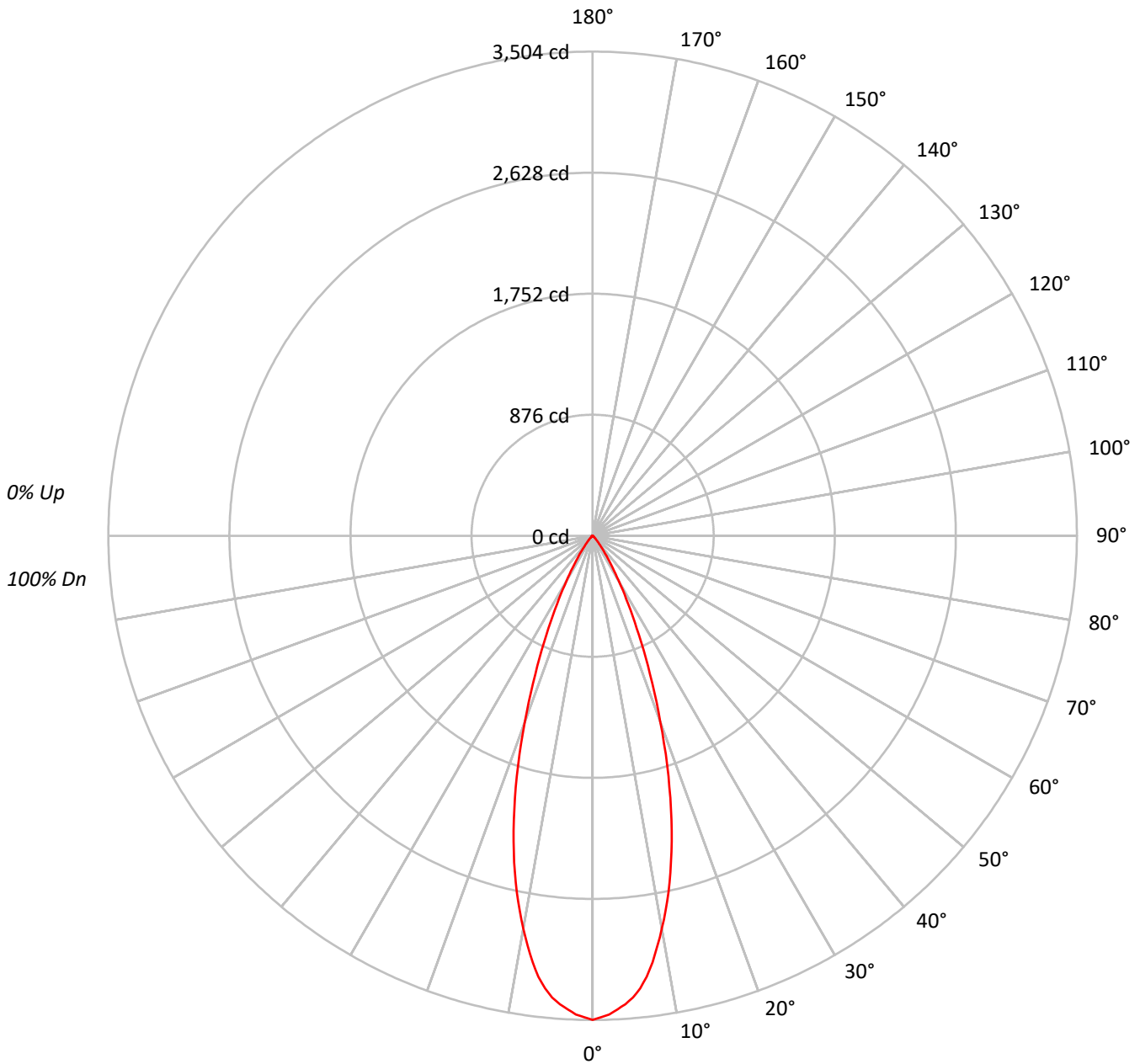
Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1357144
5°	1304199
10°	1135322
15°	886513
20°	589577
25°	337595
30°	167860
35°	77171
40°	30945
45°	14133
50°	6568
55°	3647
60°	2092
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	305.3	21.6
10°-20°	599.5	42.4
20°-30°	371.0	26.2
30°-40°	111.1	7.8
40°-50°	22.2	1.6
50°-60°	5.4	0.4
60°-70°	0.3	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°	1275.8	90.2
0°-40°	1386.8	98.0
0°-60°	1414.5	100.0
0°-90°	1414.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1414.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3504	
5°	3354	305
15°	2211	599
25°	790	371
35°	163	111
45°	26	22
55°	5	5
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3503.7
1°	3484.7
2°	3467.0
3°	3431.7
4°	3399.0
5°	3354.2
6°	3293.0
7°	3215.5
8°	3116.2
9°	3003.4
10°	2886.5
11°	2765.5
12°	2636.3
13°	2501.7
14°	2357.6
15°	2210.7
17.5°	1823.2
20°	1430.3
22.5°	1082.3
25°	789.9
27.5°	554.7
30°	375.3
32.5°	247.5
35°	163.2
37.5°	102.0
40°	61.2
42.5°	39.4
45°	25.8
47.5°	16.3
50°	10.9
52.5°	8.2
55°	5.4
57.5°	4.1
60°	2.7
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)