

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: P224985

Luminaire Tested: **LD2B20D010 EU2B20FL408040 2LBDL*LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P224985
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 EU2B20FL408040 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: 1848.5 lumens
Efficiency: N/A
Efficacy: 88.4 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

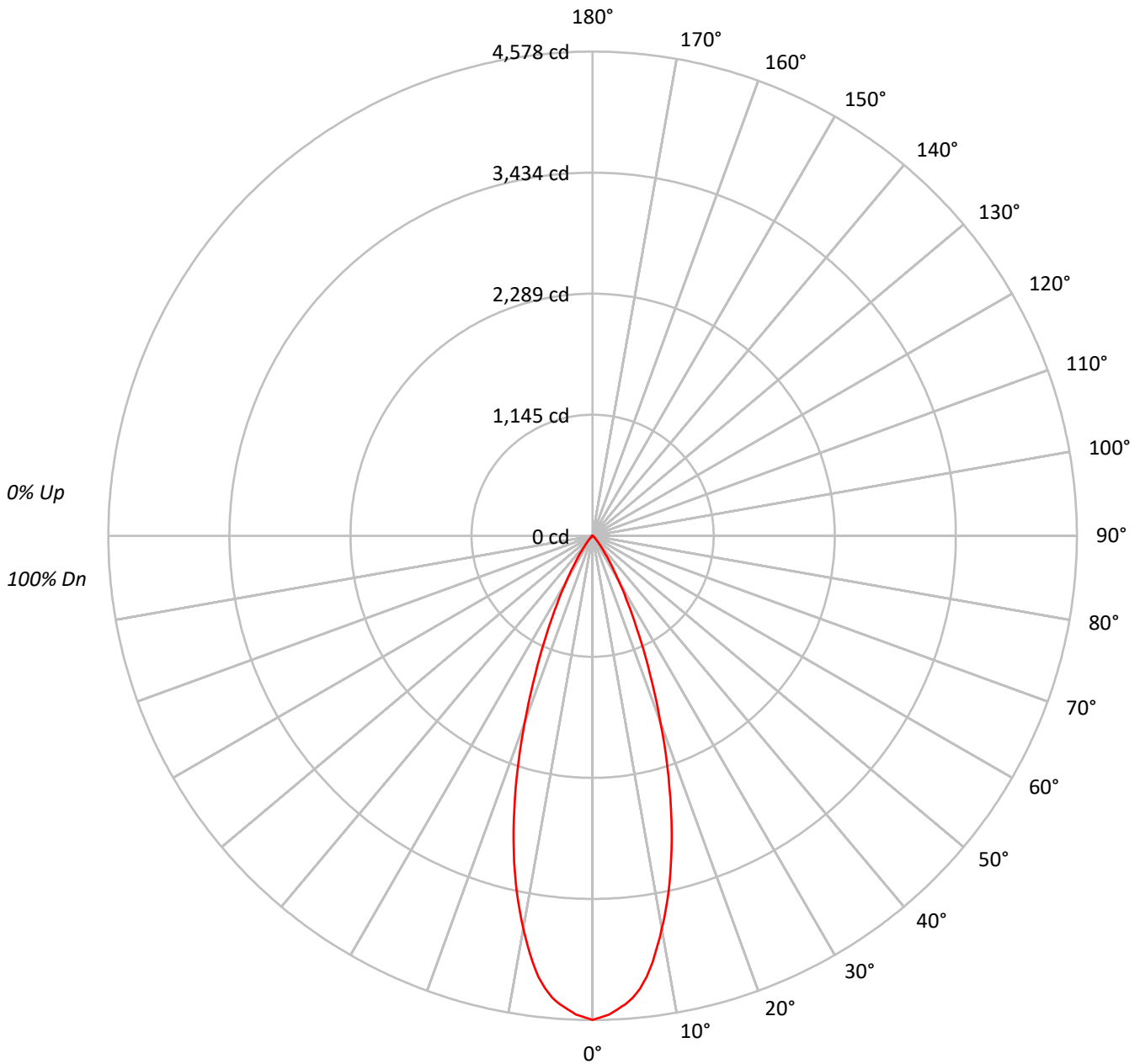
Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P224985

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	105	103	102	101	100	99	98	97	96				96
2	110	106	103	100	108	104	101	99	101	99	97	98	96	95	96	94	93	91				91
3	106	101	96	93	104	99	95	92	97	94	91	94	92	90	92	90	88	87				87
4	102	96	91	88	100	95	90	87	93	89	86	91	88	85	89	86	84	83				83
5	98	91	86	83	97	90	86	83	89	85	82	87	84	81	86	83	81	79				79
6	94	87	82	79	93	86	82	79	85	81	78	84	80	78	83	79	77	76				76
7	91	83	79	75	90	83	78	75	82	78	75	81	77	74	80	76	74	73				73
8	88	80	75	72	87	80	75	72	79	74	71	78	74	71	77	73	71	70				70
9	85	77	72	69	84	76	72	69	76	71	69	75	71	68	74	71	68	67				67
10	82	74	69	66	81	74	69	66	73	69	66	72	68	66	72	68	66	65				65

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1773192
5°	1703989
10°	1483333
15°	1158278
20°	770329
25°	441108
30°	219296
35°	100814
40°	40401
45°	18515
50°	8557
55°	4795
60°	2789
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	398.9	21.6
10°-20°	783.3	42.4
20°-30°	484.7	26.2
30°-40°	145.1	7.8
40°-50°	29.1	1.6
50°-60°	7.1	0.4
60°-70°	0.4	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°	1666.9	90.2
0°-40°	1811.9	98.0
0°-60°	1848.1	100.0
0°-90°	1848.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1848.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4578	
5°	4382	399
15°	2888	783
25°	1032	485
35°	213	145
45°	34	29
55°	7	7
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4577.8
1°	4552.9
2°	4529.8
3°	4483.6
4°	4441.0
5°	4382.4
6°	4302.5
7°	4201.2
8°	4071.5
9°	3924.1
10°	3771.3
11°	3613.2
12°	3444.4
13°	3268.6
14°	3080.3
15°	2888.4
17.5°	2382.2
20°	1868.8
22.5°	1414.0
25°	1032.1
27.5°	724.8
30°	490.3
32.5°	323.3
35°	213.2
37.5°	133.2
40°	79.9
42.5°	51.5
45°	33.8
47.5°	21.3
50°	14.2
52.5°	10.7
55°	7.1
57.5°	5.3
60°	3.6
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)