

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: P224952

Luminaire Tested: **LD2B20D010 EU2B20FL408027 2LBD*H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P224952
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (156)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD2B20D010 EU2B20FL408027 2LBD*H
Description: 2000 Lumen, 2inch Portfolio LED Downlight
FLOOD OPTIC
SPUN ROUND TRIM WITH HAZE FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1819.4 lumens
Efficiency: N/A
Efficacy: 87.1 lumens/watt
Spacing Criteria (0/90/45): 0.6 / 0.6 / 0.59
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

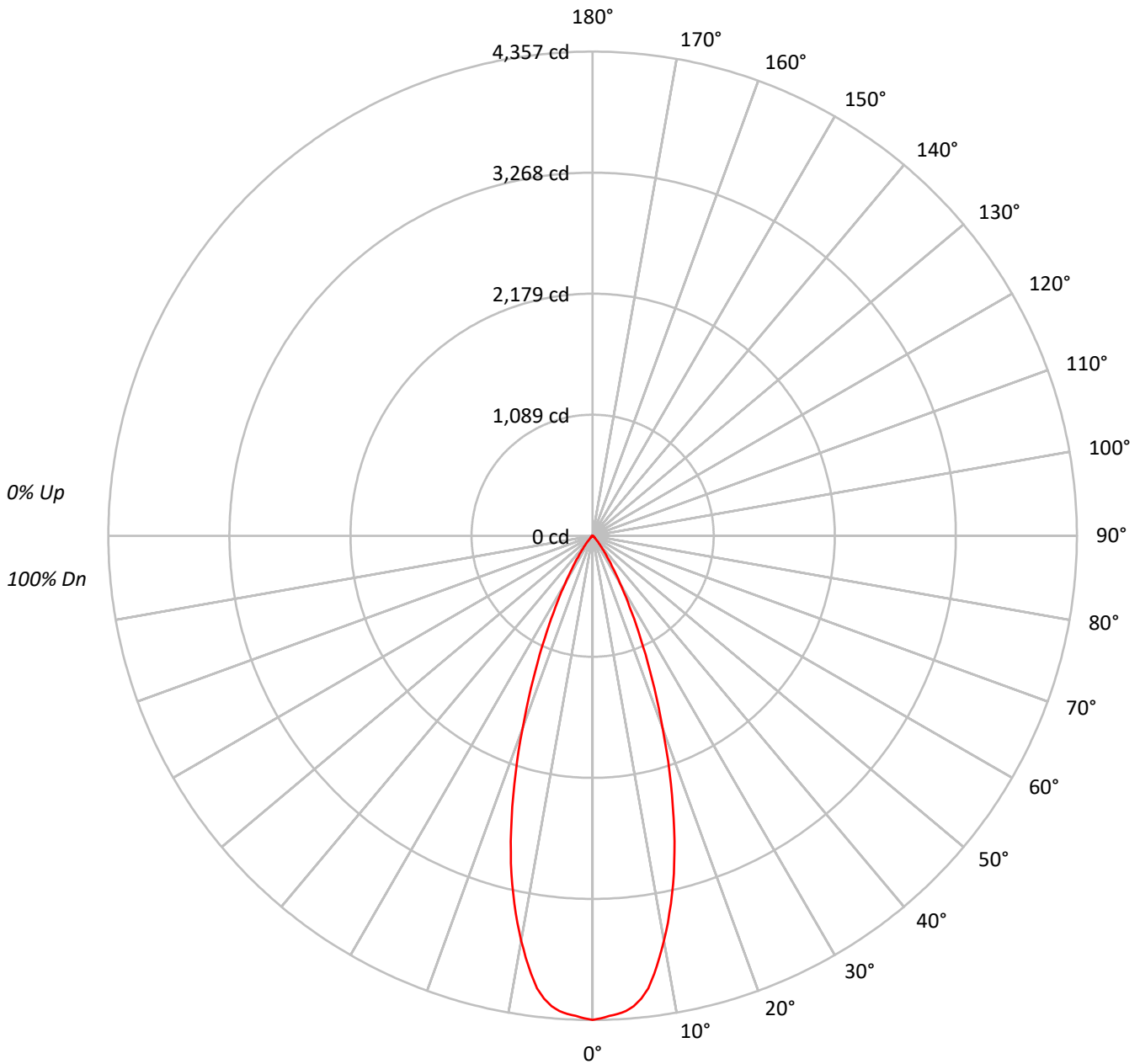
Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1687550
5°	1652237
10°	1455132
15°	1141636
20°	758127
25°	435210
30°	218267
35°	100814
40°	40957
45°	18351
50°	9581
55°	5943
60°	2711
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	388.1	21.3
10°-20°	770.6	42.4
20°-30°	478.8	26.3
30°-40°	144.4	7.9
40°-50°	29.5	1.6
50°-60°	7.6	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°	1637.4	90.0
0°-40°	1781.9	97.9
0°-60°	1819.0	100.0
0°-90°	1819.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1819.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4357	
5°	4249	388
15°	2847	771
25°	1018	479
35°	213	144
45°	34	30
55°	9	8
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4356.7
1°	4342.6
2°	4323.3
3°	4309.2
4°	4288.0
5°	4249.3
6°	4187.6
7°	4103.0
8°	3981.5
9°	3844.1
10°	3699.6
11°	3546.3
12°	3386.0
13°	3218.7
14°	3035.4
15°	2846.9
17.5°	2341.3
20°	1839.2
22.5°	1395.3
25°	1018.3
27.5°	718.8
30°	488.0
32.5°	320.6
35°	213.2
37.5°	132.1
40°	81.0
42.5°	52.9
45°	33.5
47.5°	21.1
50°	15.9
52.5°	10.6
55°	8.8
57.5°	5.3
60°	3.5
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)