

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: P224956

Luminaire Tested: **LD2B20D010 EU2B20FL408050 2LBD*H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P224956
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 EU2B20FL408050 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: 1940.5 lumens
Efficiency: N/A
Efficacy: 92.8 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

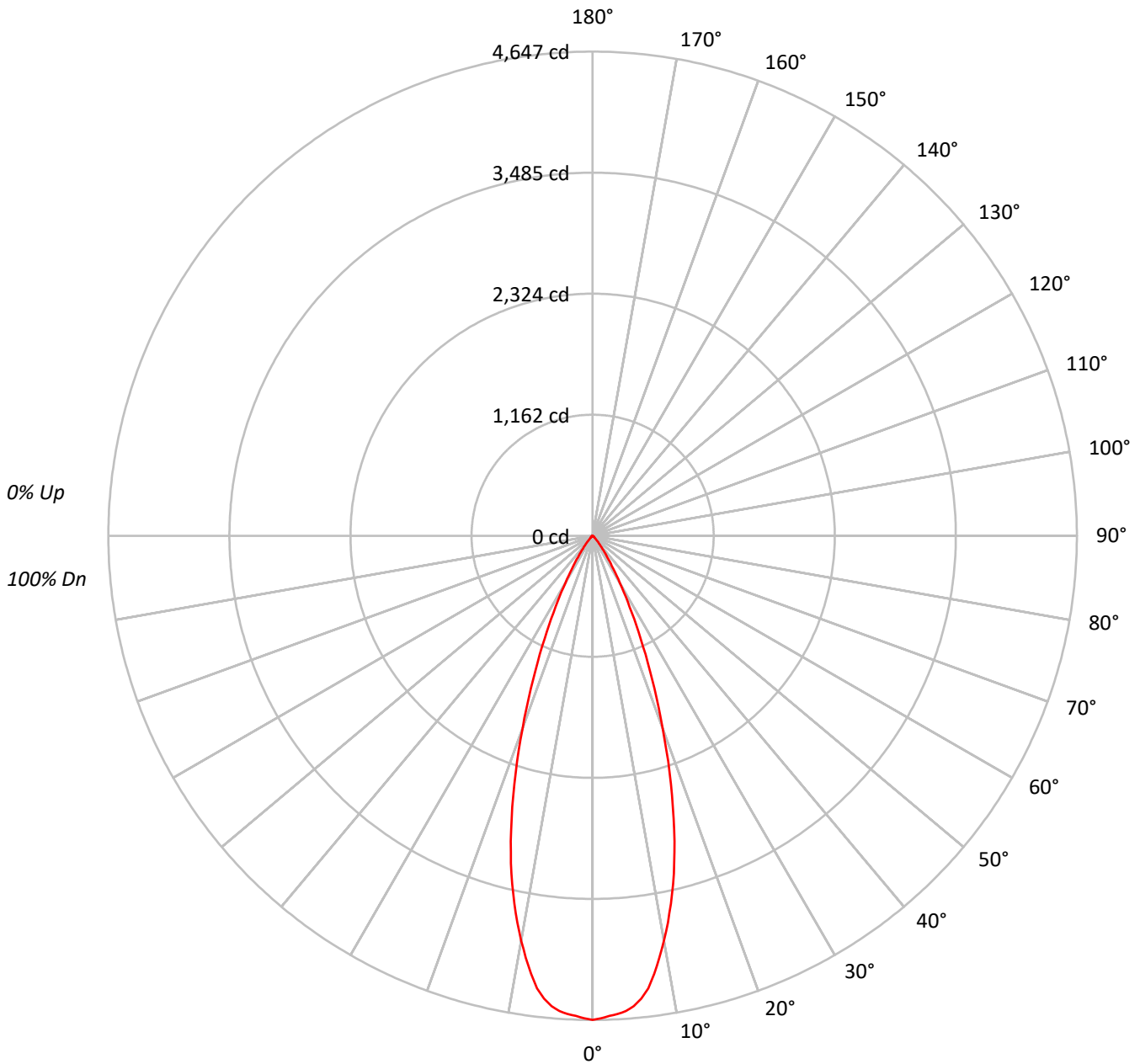
Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				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	103	100	108	104	101	99	101	99	97	98	96	94	96	94	93	91				91
3	106	100	96	93	104	99	95	92	97	94	91	94	92	90	92	90	88	87				87
4	102	96	91	88	100	94	90	87	92	89	86	91	88	85	89	86	84	83				83
5	98	91	86	83	96	90	86	82	89	85	82	87	84	81	86	83	80	79				79
6	94	87	82	79	93	86	82	78	85	81	78	84	80	77	82	79	77	76				76
7	91	83	78	75	90	83	78	75	82	77	74	80	77	74	79	76	74	73				73
8	88	80	75	72	87	79	75	72	78	74	71	77	74	71	77	73	71	70				70
9	85	77	72	69	84	76	72	69	75	71	68	75	71	68	74	70	68	67				67
10	82	74	69	66	81	73	69	66	73	69	66	72	68	66	71	68	65	64				64

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1799881
5°	1762196
10°	1552007
15°	1217627
20°	808623
25°	464187
30°	232803
35°	107529
40°	43688
45°	19556
50°	10184
55°	6348
60°	2944
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	413.9	21.3
10°-20°	821.9	42.4
20°-30°	510.7	26.3
30°-40°	154.0	7.9
40°-50°	31.5	1.6
50°-60°	8.1	0.4
60°-70°	0.5	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°	1746.4	90.0
0°-40°	1900.5	97.9
0°-60°	1940.1	100.0
0°-90°	1940.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1940.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4647	
5°	4532	414
15°	3036	822
25°	1086	511
35°	227	154
45°	36	31
55°	9	8
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4646.7
1°	4631.7
2°	4611.0
3°	4596.0
4°	4573.4
5°	4532.1
6°	4466.3
7°	4376.2
8°	4246.5
9°	4099.9
10°	3945.9
11°	3782.4
12°	3611.4
13°	3432.9
14°	3237.5
15°	3036.4
17.5°	2497.2
20°	1961.7
22.5°	1488.2
25°	1086.1
27.5°	766.6
30°	520.5
32.5°	342.0
35°	227.4
37.5°	140.9
40°	86.4
42.5°	56.4
45°	35.7
47.5°	22.5
50°	16.9
52.5°	11.3
55°	9.4
57.5°	5.6
60°	3.8
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)