

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: P225414

Luminaire Tested: **LD2B20D010 EU2B20FL409050 2LBDC*MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P225414
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14834)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD2B20D010 EU2B20FL409050 2LBDC*MB
Description: 2000 Lumen, 2inch Portfolio LED Downlight
FLOOD OPTIC
CAST ROUND TRIM WITH MATTE BLACK FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1620.7 lumens
Efficiency: N/A
Efficacy: 77.5 lumens/watt
Spacing Criteria (0/90/45): 0.61 / 0.61 / 0.6
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

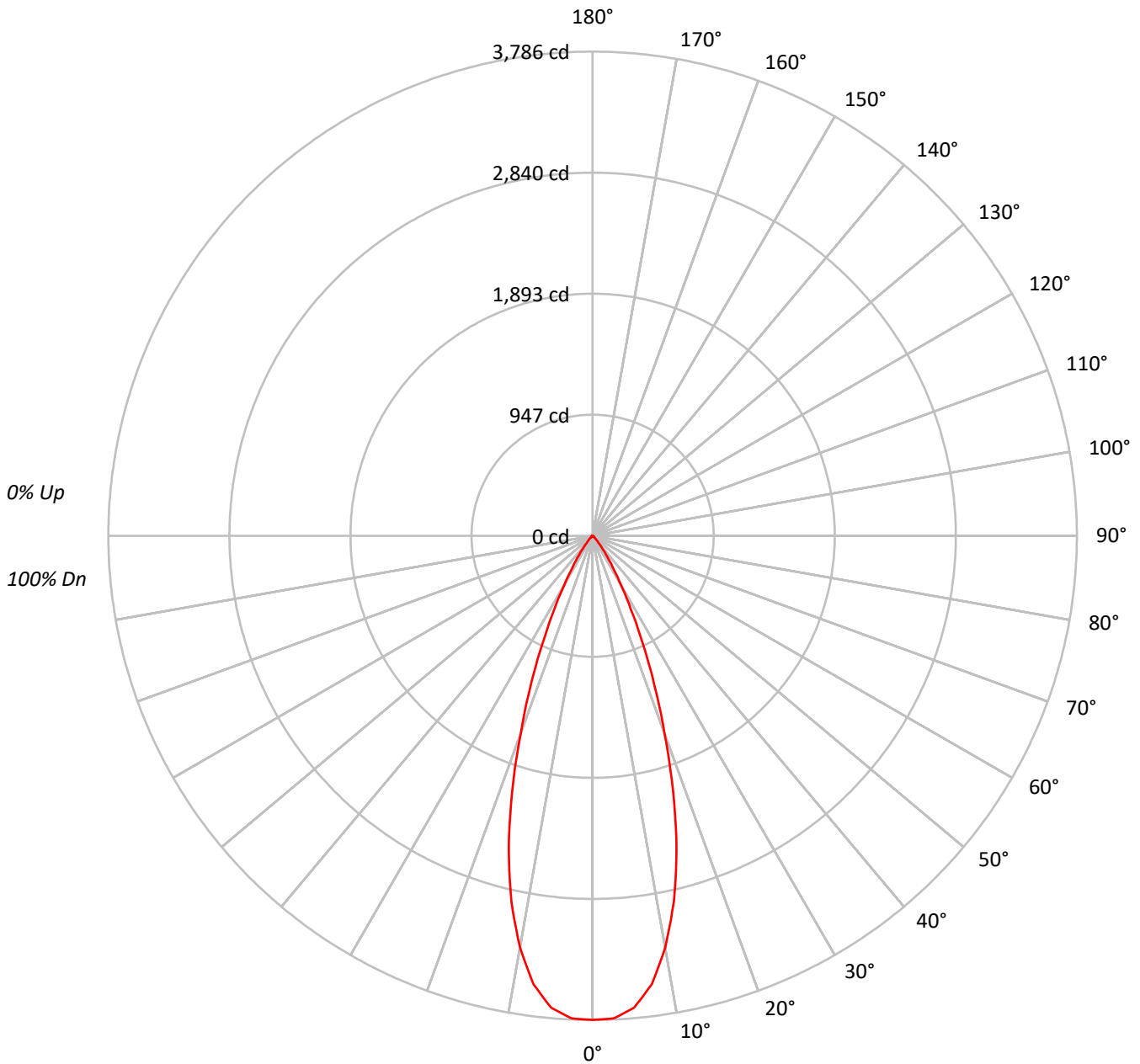
Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1466414
5°	1440910
10°	1285414
15°	1016039
20°	677459
25°	393027
30°	196709
35°	92539
40°	36154
45°	16160
50°	7593
55°	4254
60°	1627
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	339.7	21.0
10°-20°	685.8	42.3
20°-30°	431.4	26.6
30°-40°	131.9	8.1
40°-50°	25.9	1.6
50°-60°	5.8	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°	1456.9	89.9
0°-40°	1588.7	98.0
0°-60°	1620.4	100.0
0°-90°	1620.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1620.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3786	
5°	3706	340
15°	2534	686
25°	920	431
35°	196	132
45°	30	26
55°	6	6
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3785.8
2.5°	3777.3
5°	3705.8
7.5°	3537.4
10°	3268.1
12.5°	2931.4
15°	2533.7
17.5°	2091.7
20°	1643.5
22.5°	1260.5
25°	919.6
27.5°	648.1
30°	439.8
32.5°	296.7
35°	195.7
37.5°	119.9
40°	71.5
42.5°	46.3
45°	29.5
47.5°	18.9
50°	12.6
52.5°	8.4
55°	6.3
57.5°	4.2
60°	2.1
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
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)