

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: P225470

Luminaire Tested: **LD2B20D010 EU2B20FL408050 2LBDLC*MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P225470
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14833)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD2B20D010 EU2B20FL408050 2LBDLC*MB
Description: 2000 Lumen, 2inch Portfolio LED Downlight
FLOOD OPTIC
LENSED CAST ROUND TRIM WITH MATTE BLACK FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1778.1 lumens
Efficiency: N/A
Efficacy: 85.1 lumens/watt
Spacing Criteria (0/90/45): 0.6 / 0.6 / 0.6
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

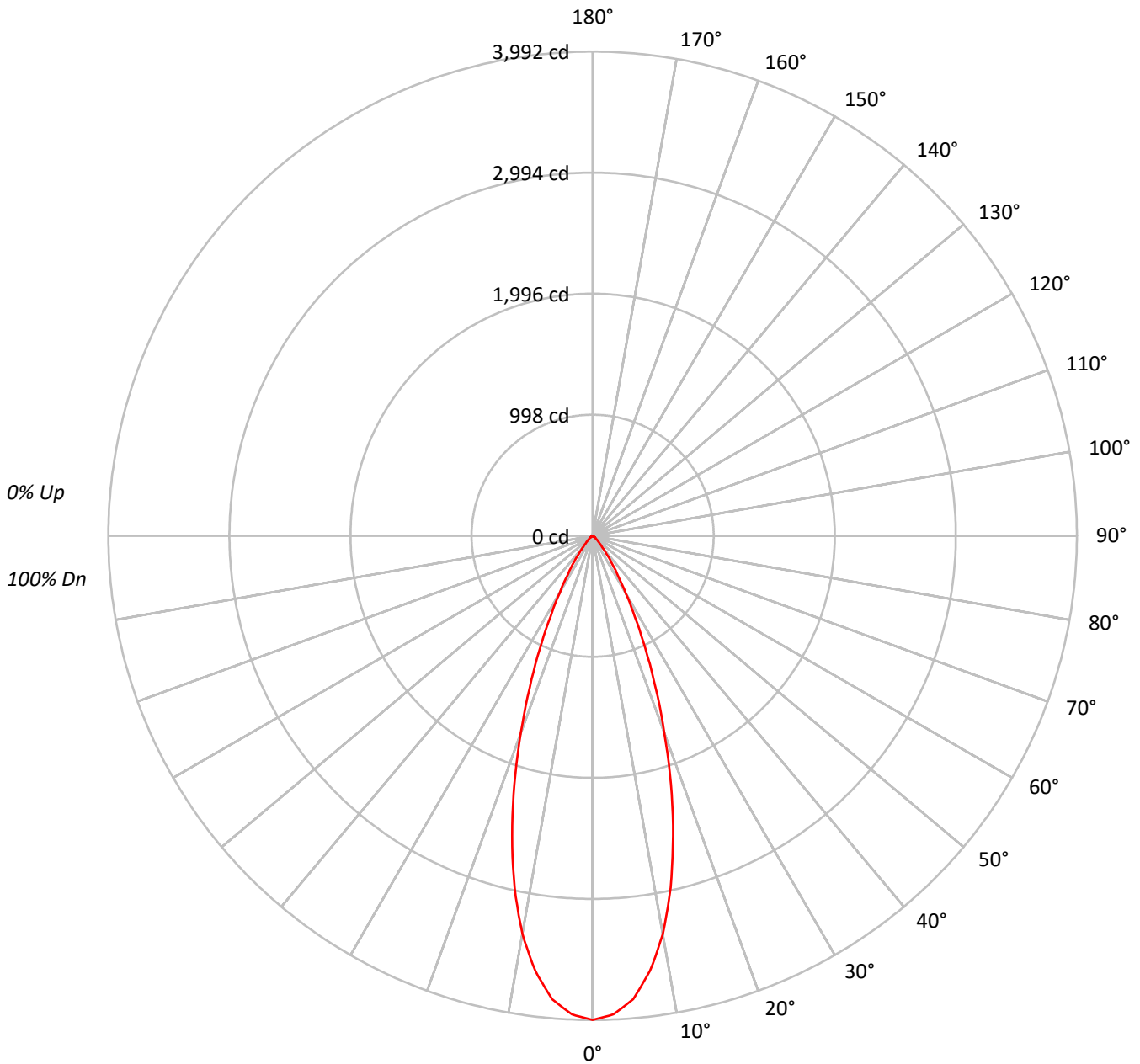
Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95			
2	110	105	102	99	107	104	101	98	101	98	96	98	96	94	95	93	92	90			
3	105	100	95	92	103	98	94	91	96	92	90	93	91	88	91	89	87	86			
4	101	94	90	86	99	93	89	86	91	87	85	89	86	84	88	85	83	81			
5	97	90	85	81	95	89	84	81	87	83	80	85	82	79	84	81	79	77			
6	93	85	80	77	92	85	80	76	83	79	76	82	78	75	81	77	75	74			
7	89	81	76	73	88	81	76	73	80	75	72	79	75	72	78	74	72	70			
8	86	78	73	69	85	77	73	69	76	72	69	75	72	69	75	71	68	67			
9	83	75	70	66	82	74	69	66	73	69	66	72	69	66	72	68	65	64			
10	80	72	67	63	79	71	66	63	70	66	63	70	66	63	69	65	63	62			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1546246
5°	1490835
10°	1311216
15°	1027709
20°	711837
25°	438544
30°	244030
35°	130179
40°	64520
45°	32922
50°	18078
55°	11818
60°	5810
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	349.7	19.7
10°-20°	700.0	39.4
20°-30°	478.2	26.9
30°-40°	182.3	10.3
40°-50°	50.6	2.8
50°-60°	15.8	0.9
60°-70°	1.5	0.1
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°	1527.9	85.9
0°-40°	1710.2	96.2
0°-60°	1776.6	99.9
0°-90°	1778.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1778.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3992	
5°	3834	350
15°	2563	700
25°	1026	478
35°	275	182
45°	60	51
55°	18	16
65°	0	2
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3991.9
2.5°	3949.4
5°	3834.2
7.5°	3619.0
10°	3333.7
12.5°	2970.8
15°	2562.8
17.5°	2144.9
20°	1726.9
22.5°	1356.5
25°	1026.1
27.5°	753.3
30°	545.6
32.5°	387.9
35°	275.3
37.5°	192.7
40°	127.6
42.5°	85.1
45°	60.1
47.5°	42.5
50°	30.0
52.5°	22.5
55°	17.5
57.5°	12.5
60°	7.5
62.5°	2.5
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)