

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: P224410

Luminaire Tested: **LD2B20D010 EU2B20FL408050 2LBDSQC*MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P224410
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14831)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD2B20D010 EU2B20FL408050 2LBDSQC*MW
Description: 2000 Lumen, 2inch Portfolio LED Downlight
FLOOD OPTIC
SQUARE CAST TRIM WITH MATTE WHITE FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1943.1 lumens
Efficiency: N/A
Efficacy: 93.0 lumens/watt
Spacing Criteria (0/90/45): 0.61 / 0.61 / 0.59
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

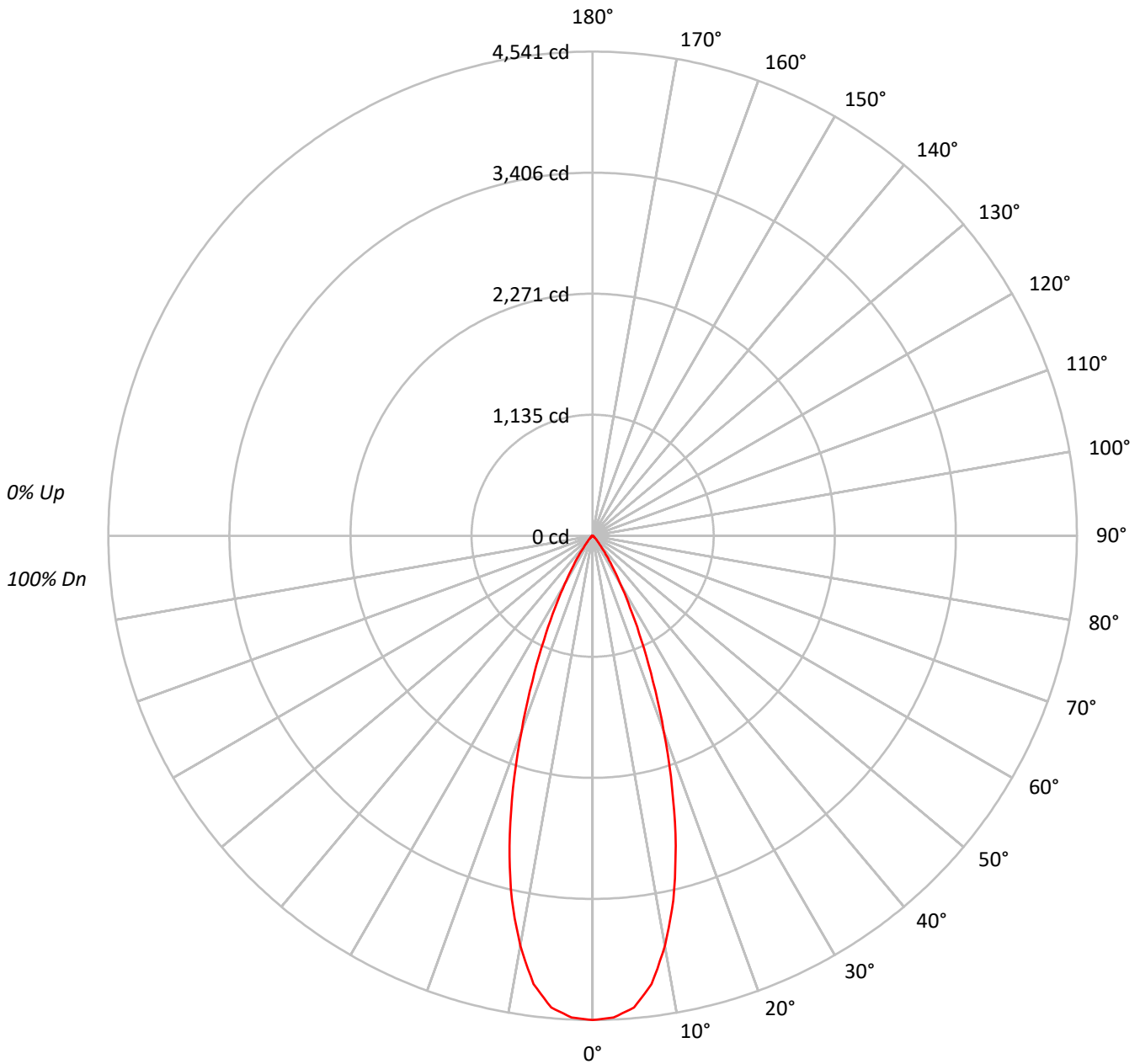
Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1759093
5°	1727047
10°	1535291
15°	1207441
20°	803470
25°	461281
30°	232982
35°	109609
40°	44092
45°	21857
50°	11992
55°	8441
60°	7747
65°	4583
70°	5663
75°	3741
80°	5577
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	406.8	20.9
10°-20°	815.6	42.0
20°-30°	507.4	26.1
30°-40°	156.0	8.0
40°-50°	34.3	1.8
50°-60°	12.2	0.6
60°-70°	6.2	0.3
70°-80°	3.6	0.2
80°-90°	1.0	0.1
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°	1729.8	89.0
0°-40°	1885.8	97.1
0°-60°	1932.3	99.4
0°-90°	1943.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1943.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4541	
5°	4442	407
15°	3011	816
25°	1079	507
35°	232	156
45°	40	34
55°	12	12
65°	5	6
75°	2	4
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4541.4
2.5°	4521.5
5°	4441.7
7.5°	4239.8
10°	3903.4
12.5°	3499.6
15°	3011.0
17.5°	2477.6
20°	1949.2
22.5°	1478.1
25°	1079.3
27.5°	760.2
30°	520.9
32.5°	351.5
35°	231.8
37.5°	139.6
40°	87.2
42.5°	59.8
45°	39.9
47.5°	27.4
50°	19.9
52.5°	17.4
55°	12.5
57.5°	10.0
60°	10.0
62.5°	7.5
65°	5.0
67.5°	5.0
70°	5.0
72.5°	5.0
75°	2.5
77.5°	2.5
80°	2.5
82.5°	2.5
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)