

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: P224517

Luminaire Tested: **LD2B20D010 EU2B20FL408040 2LBDL*WMH**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P224517
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 EU2B20FL408040 2LBDL*WMH
Description: 2000 Lumen, 2inch Portfolio LED Downlight
FLOOD OPTIC
LENSED SPUN ROUND TRIM WITH WHEAT METALLIC HAZE FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1878.4 lumens
Efficiency: N/A
Efficacy: 89.9 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

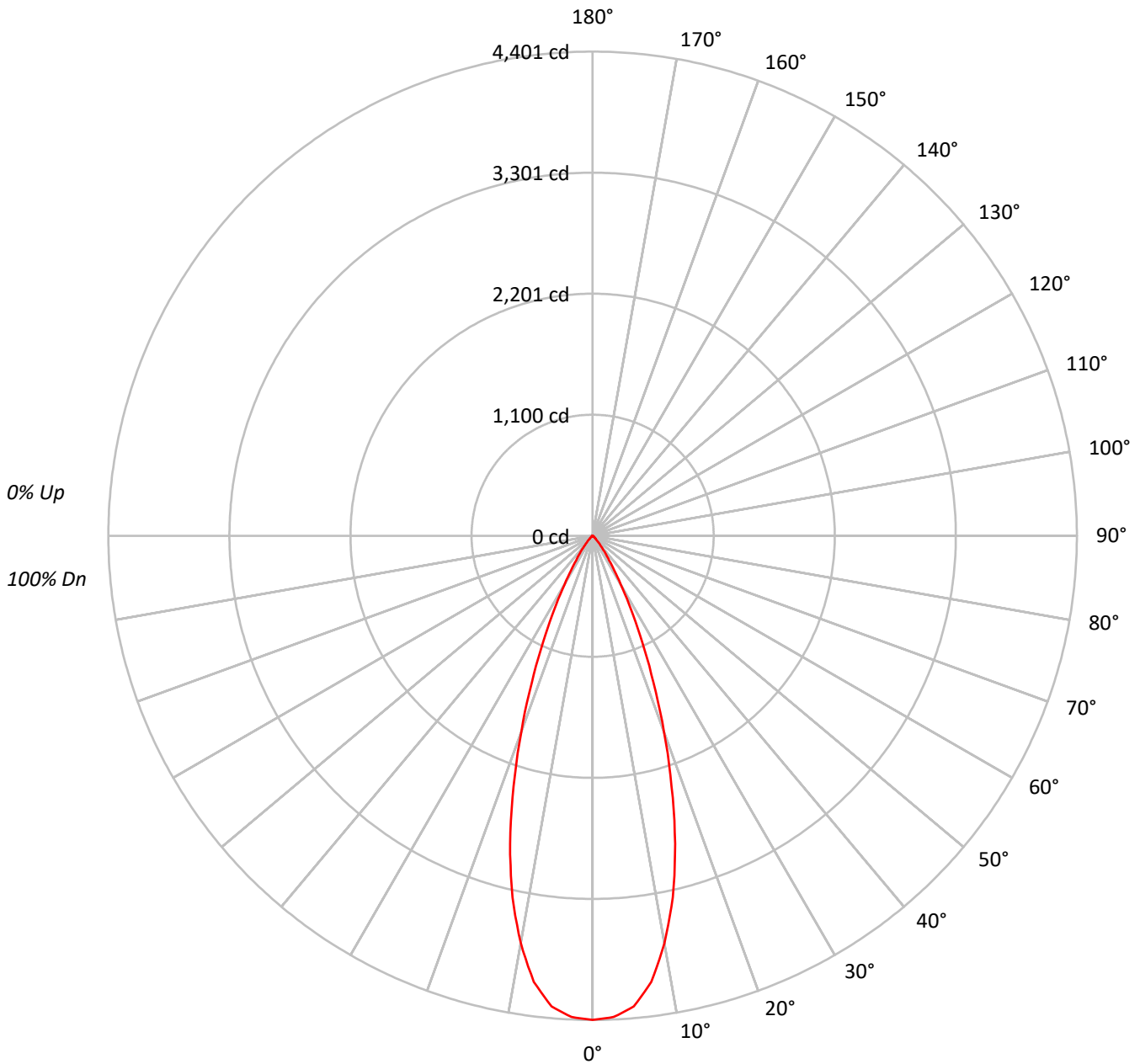
Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P224517

CATALOG NUMBER: LD2B20D010 EU2B20FL408040 2LBDL*WMH

Luminous Intensity Polar Plot





TEST NUMBER: P224517

CATALOG NUMBER: LD2B20D010 EU2B20FL408040 2LBDL*WMH

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1704555
5°	1669384
10°	1478889
15°	1162127
20°	781335
25°	453887
30°	226855
35°	106961
40°	50564
45°	22185
50°	11510
55°	6416
60°	3719
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P224517

CATALOG NUMBER: LD2B20D010 EU2B20FL408040 2LBDL*WMH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	392.8	20.9
10°-20°	786.0	41.8
20°-30°	496.9	26.5
30°-40°	155.4	8.3
40°-50°	36.1	1.9
50°-60°	9.5	0.5
60°-70°	1.7	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°	1675.7	89.2
0°-40°	1831.1	97.5
0°-60°	1876.7	99.9
0°-90°	1878.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1878.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4401	
5°	4293	393
15°	2898	786
25°	1062	497
35°	226	155
45°	40	36
55°	10	9
65°	0	2
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P224517

CATALOG NUMBER: LD2B20D010 EU2B20FL408040 2LBDL*WMH

CANDELA DISTRIBUTION (FULL):

	0°
0°	4400.6
2.5°	4379.1
5°	4293.4
7.5°	4091.0
10°	3760.0
12.5°	3367.1
15°	2898.0
17.5°	2386.0
20°	1895.5
22.5°	1443.0
25°	1062.0
27.5°	750.1
30°	507.2
32.5°	338.1
35°	226.2
37.5°	152.4
40°	100.0
42.5°	61.9
45°	40.5
47.5°	28.6
50°	19.1
52.5°	14.3
55°	9.5
57.5°	7.1
60°	4.8
62.5°	4.8
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



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)