

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: P#

Luminaire Tested: **LD2B20D010 EU2B20WFL559027 2LBDSQC*MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14810)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD2B20D010 EU2B20WFL559027 2LBDSQC*MW
Description: 2000 Lumen, 2inch Portfolio LED Downlight
WIDE FLOOD OPTIC
SQUARE CAST TRIM WITH MATTE WHITE FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1310.6 lumens
Efficiency: N/A
Efficacy: 62.7 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 0.79 / 0.84
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

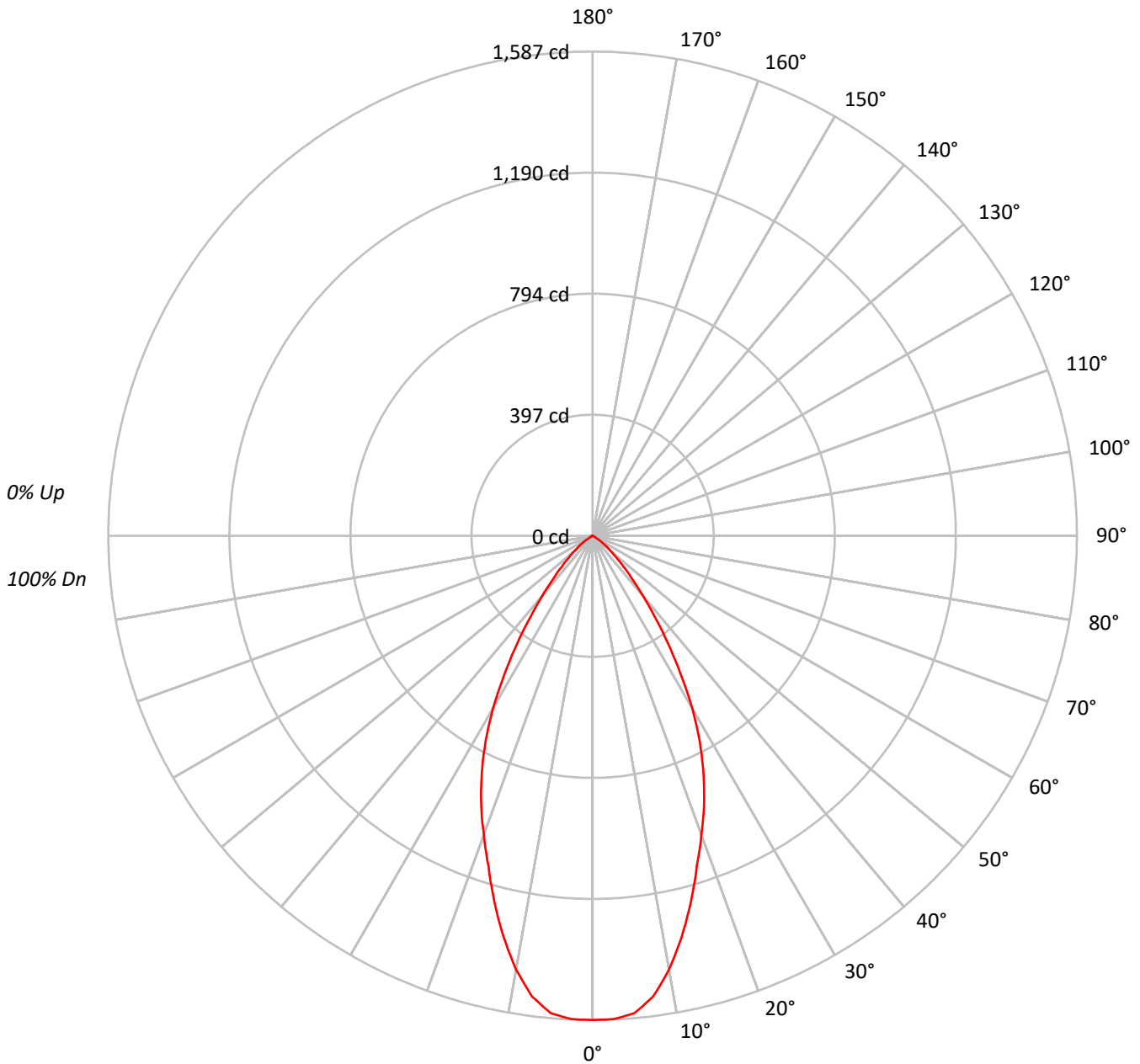
Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P#

CATALOG NUMBER: LD2B20D010 EU2B20WFL559027 2LBDSQC*MW

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: LD2B20D010 EU2B20WFL559027 2LBDSQC*MW

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	113	110	108	106	111	108	106	104	104	102	101	101	99	98	97	96	95	93			
2	108	102	98	95	105	101	97	94	98	94	92	95	92	90	92	90	88	86			
3	102	95	90	86	100	94	89	85	91	87	84	89	85	83	87	84	81	80			
4	97	89	83	79	95	88	82	78	85	81	77	83	80	76	82	78	76	74			
5	91	83	77	72	90	82	76	72	80	75	71	78	74	71	77	73	70	69			
6	87	78	71	67	85	77	71	67	75	70	66	74	69	66	73	69	65	64			
7	82	73	67	62	81	72	66	62	71	66	62	70	65	62	69	64	61	60			
8	78	69	62	58	77	68	62	58	67	62	58	66	61	58	65	61	57	56			
9	74	65	59	55	73	64	58	54	63	58	54	62	57	54	61	57	54	53			
10	71	61	55	51	70	61	55	51	60	55	51	59	54	51	58	54	51	49			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	614796
5°	610884
10°	567917
15°	498536
20°	429765
25°	367512
30°	291664
35°	203283
40°	128636
45°	78498
50°	46400
55°	25392
60°	5578
65°	4949
70°	4077
75°	5388
80°	4015
85°	8000



TEST NUMBER: P#

CATALOG NUMBER: LD2B20D010 EU2B20WFL559027 2LBDSQC*MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.8	11.1
10°-20°	346.2	26.4
20°-30°	390.7	29.8
30°-40°	270.2	20.6
40°-50°	115.2	8.8
50°-60°	33.3	2.5
60°-70°	4.9	0.4
70°-80°	3.1	0.2
80°-90°	1.2	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°	882.7	67.3
0°-40°	1152.9	88.0
0°-60°	1301.4	99.3
0°-90°	1310.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1310.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1587	
5°	1571	146
15°	1243	346
25°	860	391
35°	430	270
45°	143	115
55°	38	33
65°	5	5
75°	4	3
85°	2	1
90°	0	



TEST NUMBER: P#

CATALOG NUMBER: LD2B20D010 EU2B20WFL559027 2LBDSQC*MW

CANDELA DISTRIBUTION (FULL):

	0°
0°	1587.2
2.5°	1585.4
5°	1571.1
7.5°	1522.7
10°	1443.9
12.5°	1347.1
15°	1243.2
17.5°	1135.7
20°	1042.6
22.5°	954.8
25°	859.9
27.5°	759.6
30°	652.1
32.5°	535.6
35°	429.9
37.5°	333.2
40°	254.4
42.5°	191.7
45°	143.3
47.5°	103.9
50°	77.0
52.5°	55.5
55°	37.6
57.5°	16.1
60°	7.2
62.5°	5.4
65°	5.4
67.5°	3.6
70°	3.6
72.5°	3.6
75°	3.6
77.5°	1.8
80°	1.8
82.5°	1.8
85°	1.8
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)