

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: P224793

Luminaire Tested: **LD2B20D010 EU2B20FL409730 2LBDL**MW***

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P224793
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14835)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD2B20D010 EU2B20FL409730 2LBDL*MW
Description: 2000 Lumen, 2inch Portfolio LED Downlight
FLOOD OPTIC
LENSED SPUN ROUND TRIM WITH MATTE WHITE FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1288.9 lumens
Efficiency: N/A
Efficacy: 61.7 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

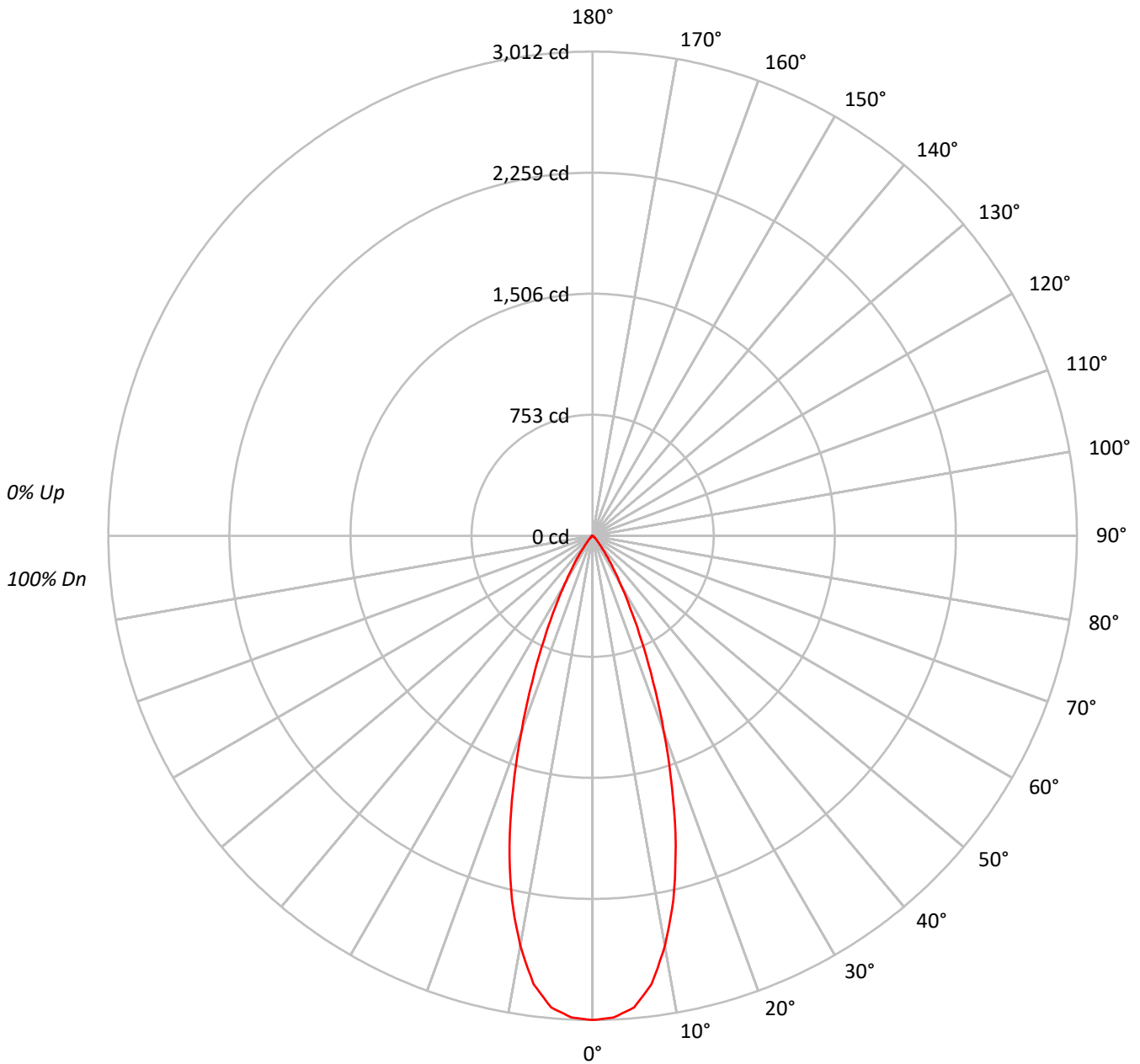
Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P224793

CATALOG NUMBER: LD2B20D010 EU2B20FL409730 2LBDL*MW

Luminous Intensity Polar Plot





TEST NUMBER: P224793

CATALOG NUMBER: LD2B20D010 EU2B20FL409730 2LBDL*MW

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	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°	1166764
5°	1145519
10°	1018309
15°	800857
20°	532899
25°	305968
30°	154531
35°	72726
40°	29277
45°	14516
50°	7954
55°	5605
60°	5113
65°	3025
70°	3737
75°	2544
80°	3792
85°	0



TEST NUMBER: P224793

CATALOG NUMBER: LD2B20D010 EU2B20FL409730 2LBDL*MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	269.8	20.9
10°-20°	541.0	42.0
20°-30°	336.6	26.1
30°-40°	103.5	8.0
40°-50°	22.8	1.8
50°-60°	8.1	0.6
60°-70°	4.1	0.3
70°-80°	2.4	0.2
80°-90°	0.7	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°	1147.3	89.0
0°-40°	1250.8	97.0
0°-60°	1281.7	99.4
0°-90°	1288.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1288.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3012	
5°	2946	270
15°	1997	541
25°	716	337
35°	154	103
45°	26	23
55°	8	8
65°	3	4
75°	2	2
85°	0	1
90°	0	



TEST NUMBER: P224793

CATALOG NUMBER: LD2B20D010 EU2B20FL409730 2LBDL*MW

CANDELA DISTRIBUTION (FULL):

	0°
0°	3012.2
2.5°	2999.0
5°	2946.1
7.5°	2812.2
10°	2589.0
12.5°	2321.1
15°	1997.1
17.5°	1643.3
20°	1292.8
22.5°	980.4
25°	715.9
27.5°	504.2
30°	345.5
32.5°	233.1
35°	153.8
37.5°	92.6
40°	57.9
42.5°	39.7
45°	26.5
47.5°	18.2
50°	13.2
52.5°	11.6
55°	8.3
57.5°	6.6
60°	6.6
62.5°	5.0
65°	3.3
67.5°	3.3
70°	3.3
72.5°	3.3
75°	1.7
77.5°	1.7
80°	1.7
82.5°	1.7
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)