

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: P224474

Luminaire Tested: **LD2B20D010 EU2B20FL409040 2LBDL*WH**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P224474
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 EU2B20FL409040 2LBDL*WH
Description: 2000 Lumen, 2inch Portfolio LED Downlight
FLOOD OPTIC
LENSED SPUN ROUND TRIM WITH WHEAT HAZE FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1528.4 lumens
Efficiency: N/A
Efficacy: 73.1 lumens/watt
Spacing Criteria (0/90/45): 0.6 / 0.6 / 0.59
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

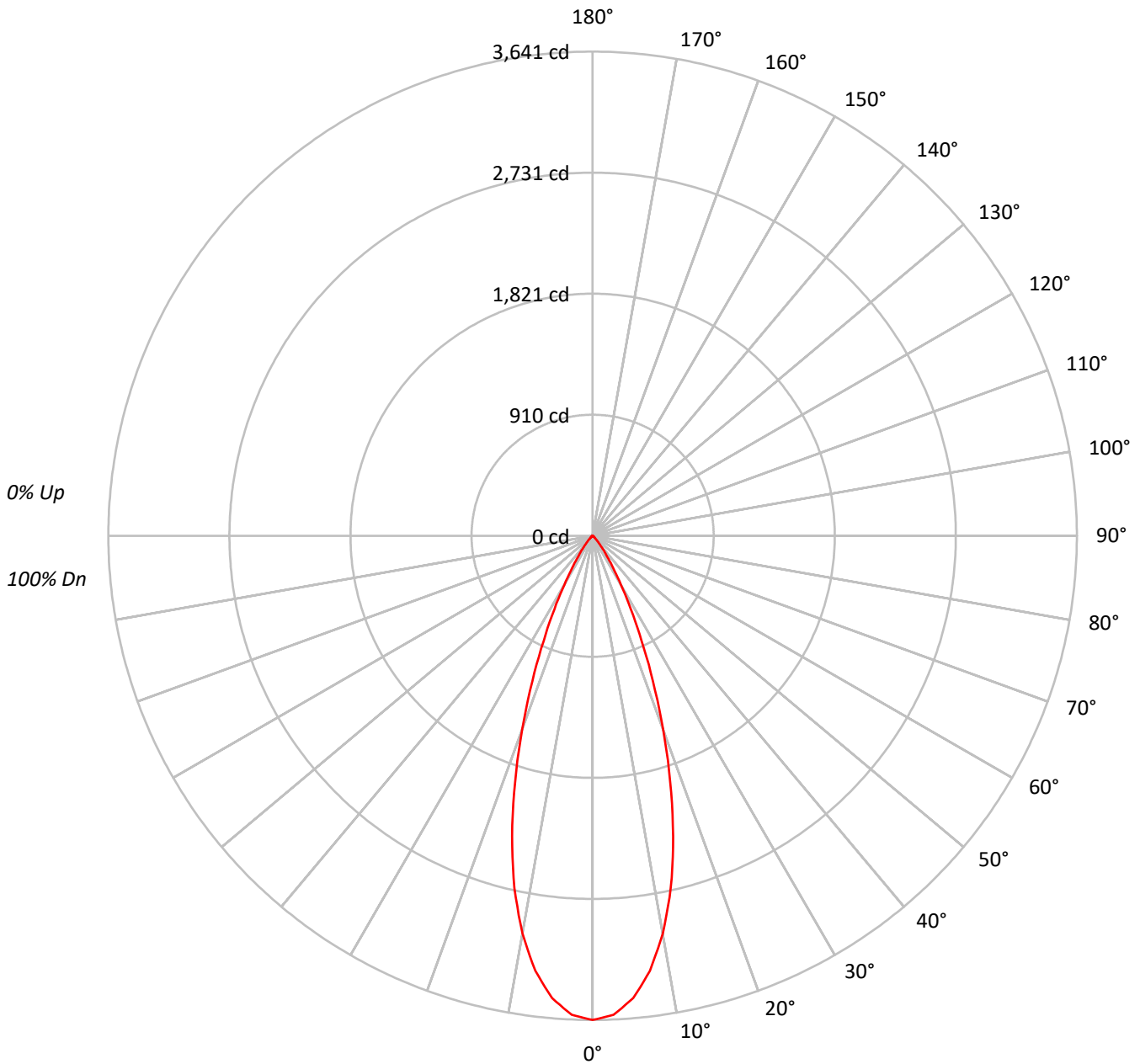
Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P224474

CATALOG NUMBER: LD2B20D010 EU2B20FL409040 2LBDL*WH

Luminous Intensity Polar Plot





TEST NUMBER: P224474

CATALOG NUMBER: LD2B20D010 EU2B20FL409040 2LBDL*WH

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	100	100
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95	95	95	95
2	110	106	102	100	108	104	101	98	101	98	96	98	96	94	95	94	92	91	91	91	91
3	106	100	96	93	104	99	95	92	96	93	91	94	91	89	92	90	88	87	87	87	87
4	102	95	91	87	100	94	90	87	92	89	86	90	87	85	88	86	84	82	82	82	82
5	98	91	86	82	96	90	85	82	88	84	81	87	83	81	85	82	80	79	79	79	79
6	94	87	82	78	93	86	81	78	85	80	77	83	80	77	82	79	76	75	75	75	75
7	91	83	78	75	89	82	78	74	81	77	74	80	76	74	79	76	73	72	72	72	72
8	87	79	75	71	86	79	74	71	78	74	71	77	73	70	76	73	70	69	69	69	69
9	84	76	71	68	83	76	71	68	75	71	68	74	70	68	73	70	67	66	66	66	66
10	81	73	69	65	80	73	68	65	72	68	65	71	68	65	71	67	65	64	64	64	64

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1410249
5°	1356885
10°	1194360
15°	938123
20°	637805
25°	372470
30°	189687
35°	89749
40°	39187
45°	16981
50°	8195
55°	5200
60°	3021
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P224474

CATALOG NUMBER: LD2B20D010 EU2B20FL409040 2LBDL*WH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	318.7	20.9
10°-20°	636.1	41.6
20°-30°	408.3	26.7
30°-40°	129.6	8.5
40°-50°	27.7	1.8
50°-60°	7.1	0.5
60°-70°	0.9	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°	1363.2	89.2
0°-40°	1492.8	97.7
0°-60°	1527.5	99.9
0°-90°	1528.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1528.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3641	
5°	3490	319
15°	2339	636
25°	872	408
35°	190	130
45°	31	28
55°	8	7
65°	0	1
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P224474

CATALOG NUMBER: LD2B20D010 EU2B20FL409040 2LBDL*WH

CANDELA DISTRIBUTION (FULL):

	0°
0°	3640.8
2.5°	3605.9
5°	3489.7
7.5°	3299.9
10°	3036.6
12.5°	2715.1
15°	2339.4
17.5°	1938.5
20°	1547.3
22.5°	1181.3
25°	871.5
27.5°	621.6
30°	424.1
32.5°	284.7
35°	189.8
37.5°	125.9
40°	77.5
42.5°	48.4
45°	31.0
47.5°	21.3
50°	13.6
52.5°	9.7
55°	7.7
57.5°	5.8
60°	3.9
62.5°	1.9
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)