

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: P224476

Luminaire Tested: **LD2B20D010 EU2B20FL409727 2LBDL*WH**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P224476
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 EU2B20FL409727 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: 1243.2 lumens
Efficiency: N/A
Efficacy: 59.5 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

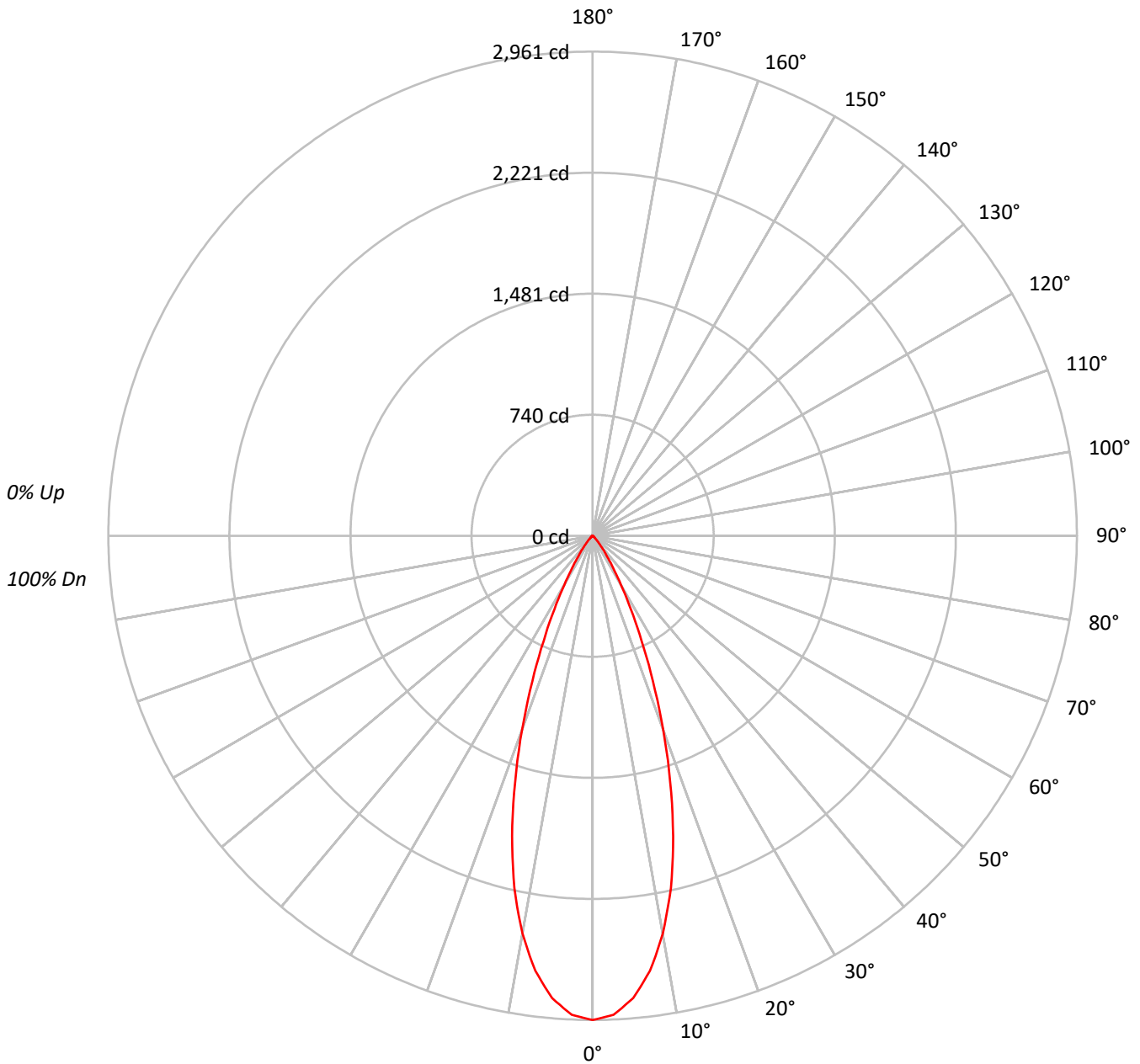
Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P224476

CATALOG NUMBER: LD2B20D010 EU2B20FL409727 2LBDL*WH

Luminous Intensity Polar Plot





TEST NUMBER: P224476

CATALOG NUMBER: LD2B20D010 EU2B20FL409727 2LBDL*WH

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	82			82
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	80	77	83	80	77	82	79	76	75			75
7	90	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	70	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	71	68	65	71	67	65	64			64

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1147048
5°	1103643
10°	971425
15°	763042
20°	518760
25°	302933
30°	154308
35°	73010
40°	31856
45°	13804
50°	6629
55°	4254
60°	2479
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P224476

CATALOG NUMBER: LD2B20D010 EU2B20FL409727 2LBDL*WH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.2	20.9
10°-20°	517.4	41.6
20°-30°	332.1	26.7
30°-40°	105.4	8.5
40°-50°	22.5	1.8
50°-60°	5.8	0.5
60°-70°	0.8	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°	1108.7	89.2
0°-40°	1214.1	97.7
0°-60°	1242.4	99.9
0°-90°	1243.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1243.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2961	
5°	2838	259
15°	1903	517
25°	709	332
35°	154	105
45°	25	23
55°	6	6
65°	0	1
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P224476

CATALOG NUMBER: LD2B20D010 EU2B20FL409727 2LBDL*WH

CANDELA DISTRIBUTION (FULL):

	0°
0°	2961.3
2.5°	2932.9
5°	2838.4
7.5°	2684.0
10°	2469.8
12.5°	2208.3
15°	1902.8
17.5°	1576.7
20°	1258.5
22.5°	960.8
25°	708.8
27.5°	505.6
30°	345.0
32.5°	231.5
35°	154.4
37.5°	102.4
40°	63.0
42.5°	39.4
45°	25.2
47.5°	17.3
50°	11.0
52.5°	7.9
55°	6.3
57.5°	4.7
60°	3.2
62.5°	1.6
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)