

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: P224990

Luminaire Tested: **LD2B20D010 EU2B20FL409035 2LBDL*LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P224990
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (152)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD2B20D010 EU2B20FL409035 2LBDL*LI
Description: 2000 Lumen, 2inch Portfolio LED Downlight
FLOOD OPTIC
LENSED SPUN ROUND TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1470.5 lumens
Efficiency: N/A
Efficacy: 70.4 lumens/watt
Spacing Criteria (0/90/45): 0.59 / 0.59 / 0.58
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

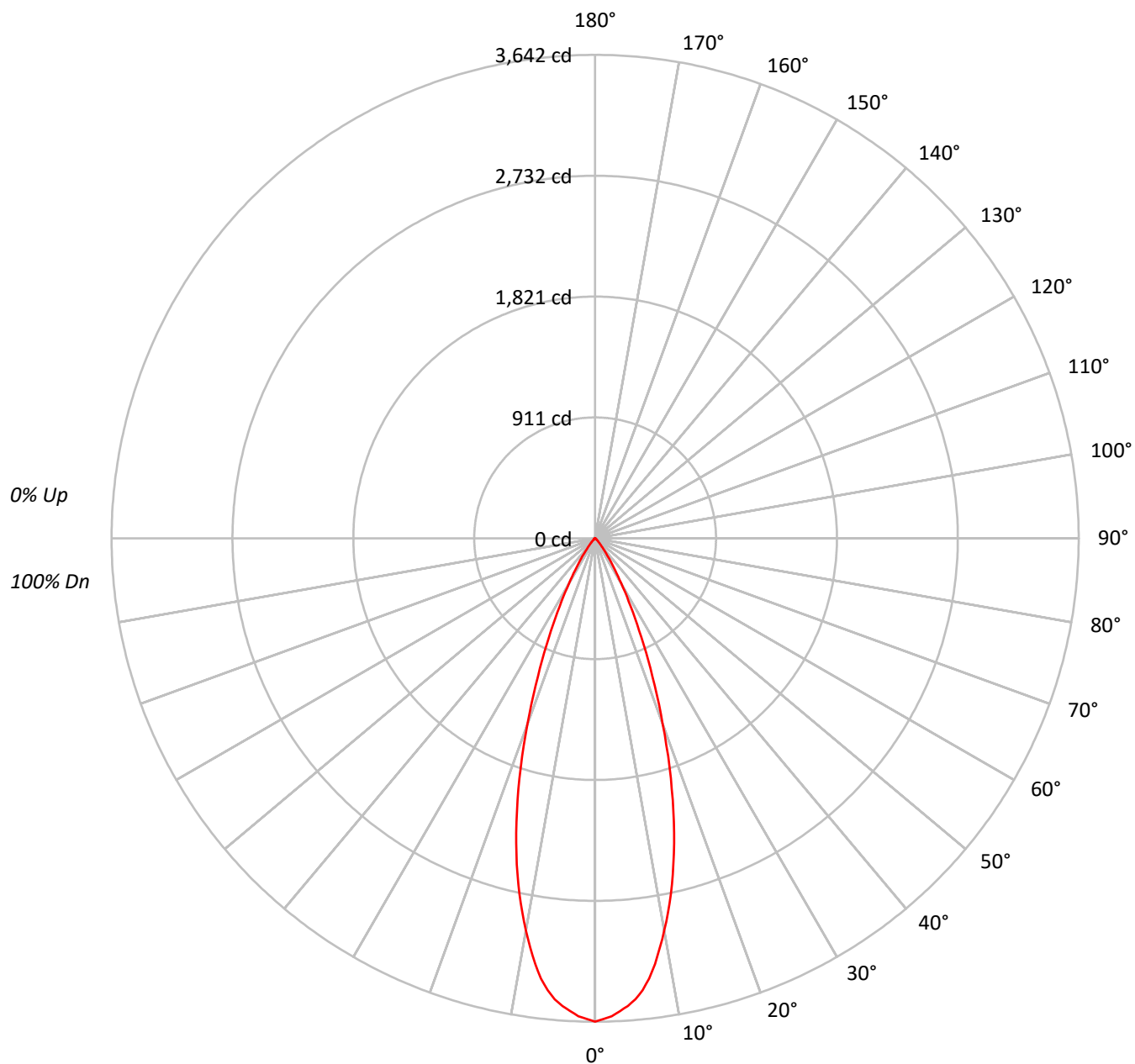
Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20
RC	80					70					50					30					10
RW	70	50	30	10		70	50	30	10		50	30	10			50	30	10			50
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111			106	106	106			102
1	114	112	110	108		112	110	108	106		106	105	103			102	101	100			99
2	110	106	103	100		108	104	101	99		101	99	97			98	96	95			96
3	106	101	96	93		104	99	95	92		97	94	91			94	92	90			92
4	102	96	91	88		100	95	90	87		93	89	86			91	88	85			89
5	98	91	86	83		97	90	86	83		89	85	82			87	84	81			86
6	94	87	82	79		93	86	82	79		85	81	78			84	80	78			83
7	91	83	79	75		90	83	78	75		82	78	75			81	77	74			80
8	88	80	75	72		87	80	75	72		79	74	71			78	74	71			77
9	85	77	72	69		84	76	72	69		76	71	69			75	71	68			74
10	82	74	69	66		81	74	69	66		73	69	66			72	68	66			72

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1410598
5°	1355524
10°	1180004
15°	921441
20°	612784
25°	350886
30°	174435
35°	80197
40°	32159
45°	14681
50°	6809
55°	3849
60°	2169
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	317.3	21.6
10°-20°	623.1	42.4
20°-30°	385.6	26.2
30°-40°	115.4	7.8
40°-50°	23.1	1.6
50°-60°	5.6	0.4
60°-70°	0.3	0.0
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°	1326.0	90.2
0°-40°	1441.4	98.0
0°-60°	1470.2	100.0
0°-90°	1470.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1470.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3642	
5°	3486	317
15°	2298	623
25°	821	386
35°	170	115
45°	27	23
55°	6	6
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3641.7
1°	3621.9
2°	3603.5
3°	3566.8
4°	3532.9
5°	3486.2
6°	3422.6
7°	3342.1
8°	3238.9
9°	3121.6
10°	3000.1
11°	2874.3
12°	2740.1
13°	2600.2
14°	2450.4
15°	2297.8
17.5°	1895.0
20°	1486.6
22.5°	1124.9
25°	821.0
27.5°	576.6
30°	390.0
32.5°	257.2
35°	169.6
37.5°	106.0
40°	63.6
42.5°	41.0
45°	26.8
47.5°	17.0
50°	11.3
52.5°	8.5
55°	5.7
57.5°	4.2
60°	2.8
62.5°	0.0
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



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CANDELA DISTRIBUTION (continued):

0°
90° | 0.0



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— 0°-180°







85°	0.0
87.5°	0.0



(END OF REPORT)