

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: P224994

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P224994
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 EU2B20FL409730 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: 1298.5 lumens
Efficiency: N/A
Efficacy: 62.1 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

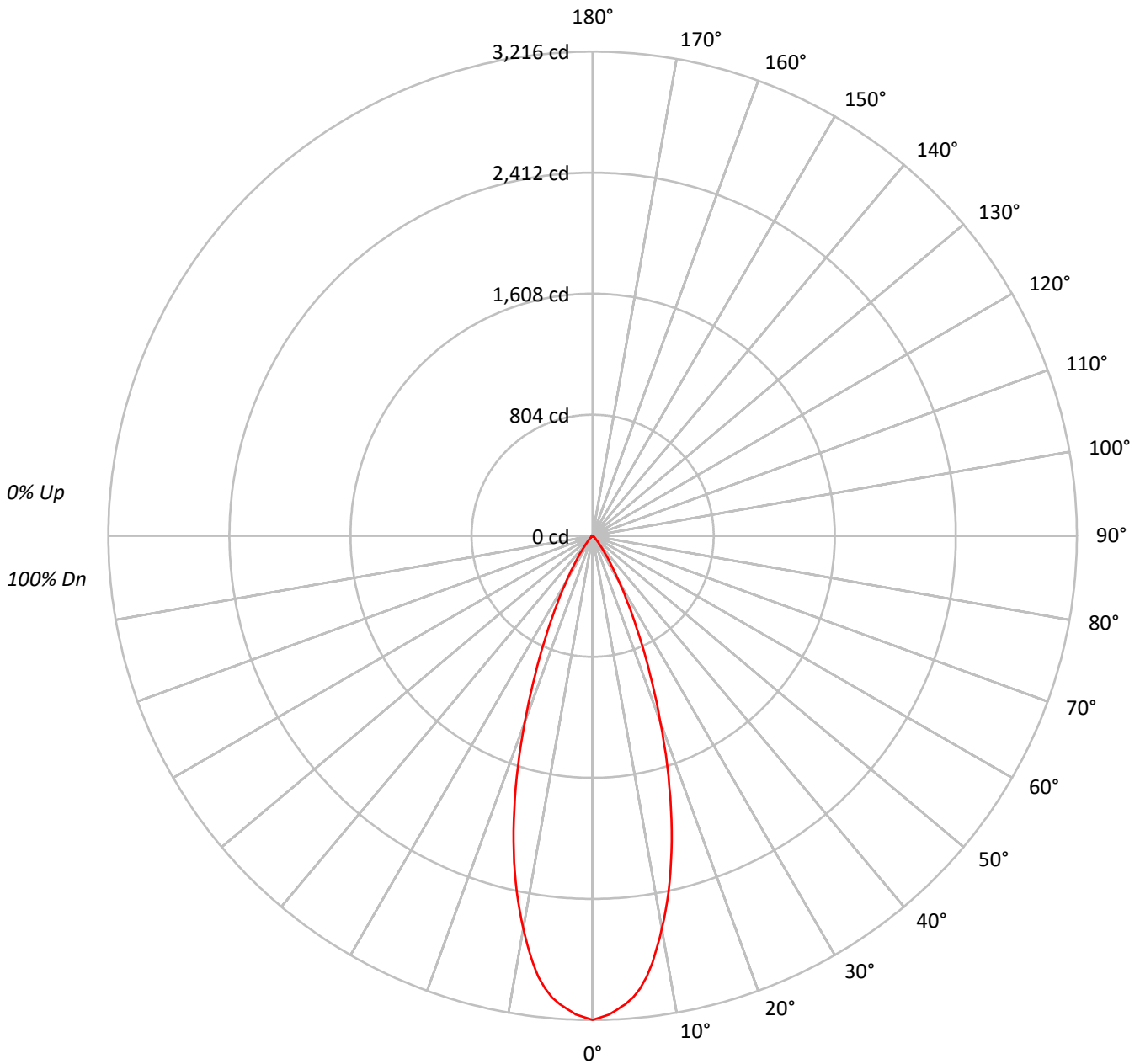
Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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	105	103	102	101	100	99	98	97	96																			
2	110	106	103	100	108	104	101	99	101	99	97	98	96	95	96	94	93	91																			
3	106	101	96	93	104	99	95	92	97	94	91	94	92	90	92	90	88	87																			
4	102	96	91	88	100	95	90	87	93	89	86	91	88	85	89	86	84	83																			
5	98	91	86	83	97	90	86	83	89	85	82	87	84	81	86	83	81	79																			
6	94	87	82	79	93	86	82	79	85	81	78	84	80	78	83	79	77	76																			
7	91	83	79	75	90	83	78	75	82	78	75	81	77	74	80	76	74	73																			
8	88	80	75	72	87	80	75	72	79	74	71	78	74	71	77	73	71	70																			
9	85	77	72	69	84	76	72	69	76	71	69	75	71	68	74	71	68	67																			
10	82	74	69	66	81	74	69	66	73	69	66	72	68	66	72	68	66	65																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1245588
5°	1197000
10°	1041987
15°	813649
20°	541101
25°	309857
30°	154039
35°	70787
40°	28417
45°	12983
50°	6026
55°	3377
60°	1937
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.2	21.6
10°-20°	550.2	42.4
20°-30°	340.5	26.2
30°-40°	101.9	7.8
40°-50°	20.4	1.6
50°-60°	5.0	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°	1170.9	90.2
0°-40°	1272.8	98.0
0°-60°	1298.2	100.0
0°-90°	1298.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1298.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3216	
5°	3078	280
15°	2029	550
25°	725	340
35°	150	102
45°	24	20
55°	5	5
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3215.7
1°	3198.3
2°	3182.0
3°	3149.6
4°	3119.6
5°	3078.5
6°	3022.3
7°	2951.2
8°	2860.1
9°	2756.5
10°	2649.2
11°	2538.1
12°	2419.6
13°	2296.1
14°	2163.8
15°	2029.0
17.5°	1673.4
20°	1312.7
22.5°	993.3
25°	725.0
27.5°	509.1
30°	344.4
32.5°	227.1
35°	149.7
37.5°	93.6
40°	56.2
42.5°	36.2
45°	23.7
47.5°	15.0
50°	10.0
52.5°	7.5
55°	5.0
57.5°	3.7
60°	2.5
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)