

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: P224824

Luminaire Tested: **LD2B10D010 EU2B10FL409030D2W 2LBDL*B**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P224824
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14834)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD2B10D010 EU2B10FL409030D2W 2LBDL*B
Description: 1000 Lumen, 2inch Portfolio LED Downlight
FLOOD OPTIC
LENSED SPUN ROUND TRIM WITH BLACK FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 564.7 lumens
Efficiency: N/A
Efficacy: 54.8 lumens/watt
Spacing Criteria (0/90/45): 0.61 / 0.61 / 0.6
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

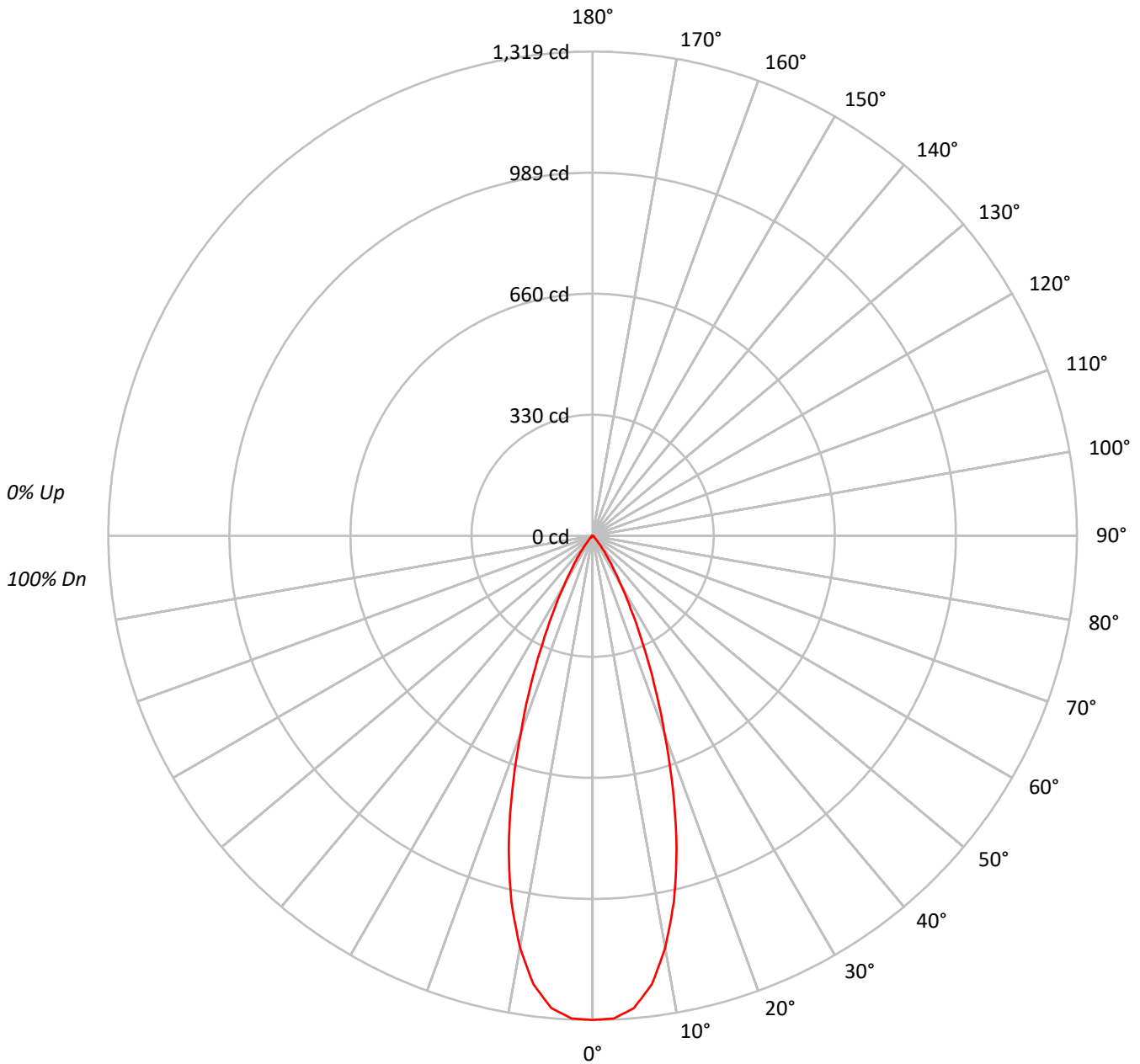
Input Watts (W): 10.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	510948
5°	502052
10°	447875
15°	354012
20°	236029
25°	136978
30°	68522
35°	32249
40°	12591
45°	5642
50°	2651
55°	1486
60°	542
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.4	21.0
10°-20°	239.0	42.3
20°-30°	150.3	26.6
30°-40°	46.0	8.1
40°-50°	9.0	1.6
50°-60°	2.0	0.4
60°-70°	0.1	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°	507.6	89.9
0°-40°	553.6	98.0
0°-60°	564.6	100.0
0°-90°	564.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	564.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1319	
5°	1291	118
15°	883	239
25°	320	150
35°	68	46
45°	10	9
55°	2	2
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1319.1
2.5°	1316.2
5°	1291.2
7.5°	1232.6
10°	1138.7
12.5°	1021.4
15°	882.8
17.5°	728.8
20°	572.6
22.5°	439.2
25°	320.5
27.5°	225.8
30°	153.2
32.5°	103.4
35°	68.2
37.5°	41.8
40°	24.9
42.5°	16.1
45°	10.3
47.5°	6.6
50°	4.4
52.5°	3.0
55°	2.2
57.5°	1.5
60°	0.7
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
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)