

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: P225437

Luminaire Tested: **LD2B05D010 EU2B05FL409024 2LBDLC*MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P225437
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14833)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD2B05D010 EU2B05FL409024 2LBDLC*MB
Description: 500 Lumen, 2inch Portfolio LED Downlight
FLOOD OPTIC
LENSED CAST ROUND TRIM WITH MATTE BLACK FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 504.0 lumens
Efficiency: N/A
Efficacy: 69.0 lumens/watt
Spacing Criteria (0/90/45): 0.6 / 0.6 / 0.6
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

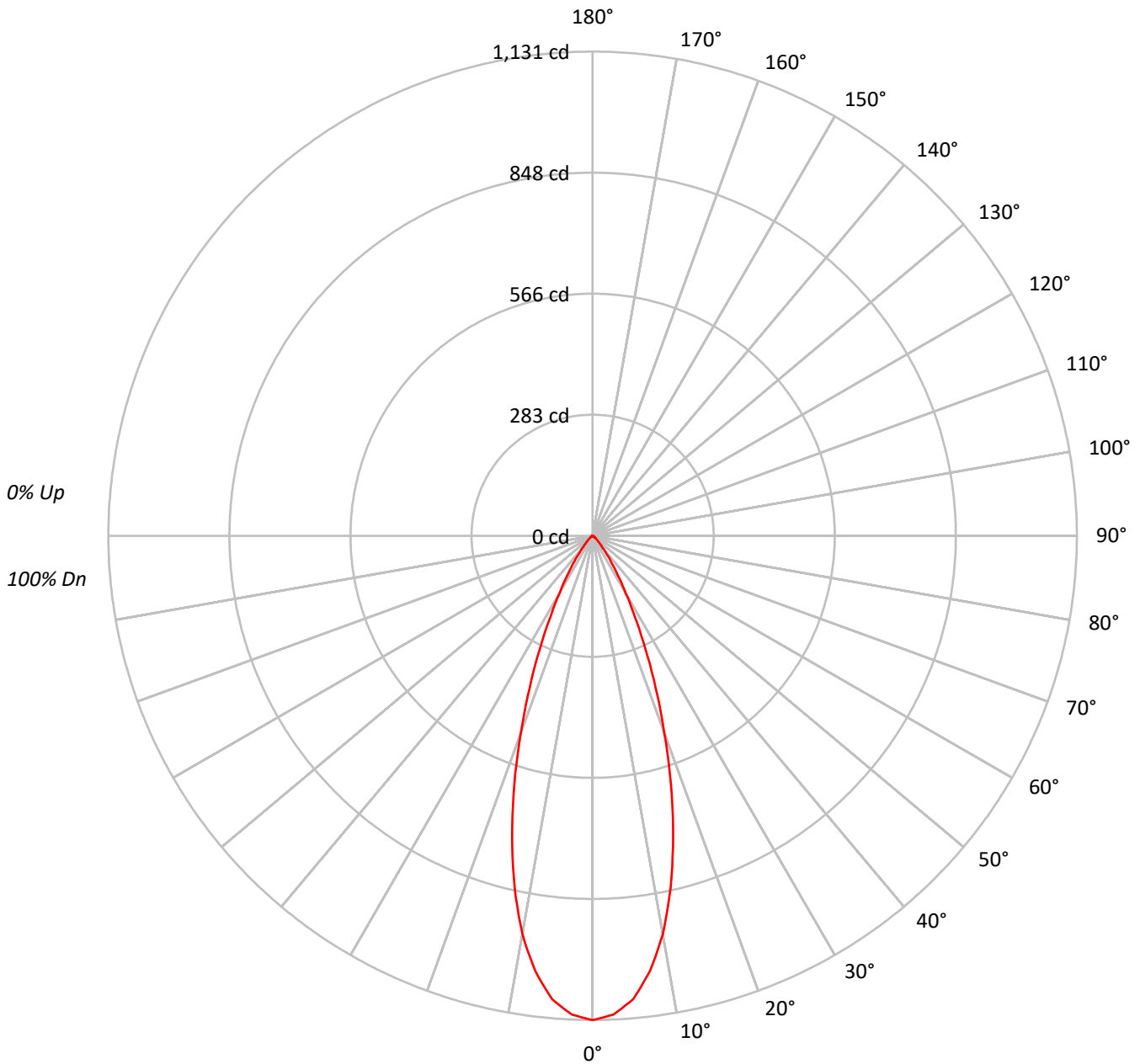
Input Watts (W): 7.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				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	105	102	99	107	104	101	98	101	98	96	98	96	94	95	93	92	90			90
3	105	100	95	92	103	98	94	91	96	92	90	93	91	88	91	89	87	86			86
4	101	94	90	86	99	93	89	86	91	87	85	89	86	84	88	85	83	81			81
5	97	90	85	81	95	89	84	81	87	83	80	85	82	79	84	81	79	77			77
6	93	85	80	77	92	85	80	76	83	79	76	82	78	75	81	77	75	74			74
7	89	81	76	73	88	81	76	73	80	75	72	79	75	72	78	74	72	70			70
8	86	78	73	69	85	77	73	69	76	72	69	75	72	69	75	71	68	67			67
9	83	75	70	66	82	74	69	66	73	69	66	72	69	66	72	68	65	64			64
10	80	72	67	63	79	71	66	63	70	66	63	70	66	63	69	65	63	62			62

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	438243
5°	422576
10°	371649
15°	291294
20°	201774
25°	124285
30°	69148
35°	36883
40°	18304
45°	9312
50°	5122
55°	3377
60°	1627
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.1	19.7
10°-20°	198.4	39.4
20°-30°	135.5	26.9
30°-40°	51.7	10.3
40°-50°	14.3	2.8
50°-60°	4.5	0.9
60°-70°	0.4	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°	433.1	85.9
0°-40°	484.7	96.2
0°-60°	503.6	99.9
0°-90°	504.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	504.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1131	
5°	1087	99
15°	726	198
25°	291	136
35°	78	52
45°	17	14
55°	5	4
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1131.4
2.5°	1119.4
5°	1086.8
7.5°	1025.7
10°	944.9
12.5°	842.0
15°	726.4
17.5°	607.9
20°	489.5
22.5°	384.5
25°	290.8
27.5°	213.5
30°	154.6
32.5°	110.0
35°	78.0
37.5°	54.6
40°	36.2
42.5°	24.1
45°	17.0
47.5°	12.1
50°	8.5
52.5°	6.4
55°	5.0
57.5°	3.5
60°	2.1
62.5°	0.7
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)