

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: P224958

Luminaire Tested: **LD2B05D010 EU2B05FL409024 2LBDL*LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P224958
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: LD2B05D010 EU2B05FL409024 2LBDL*LI
Description: 500 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: 520.0 lumens
Efficiency: N/A
Efficacy: 71.2 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

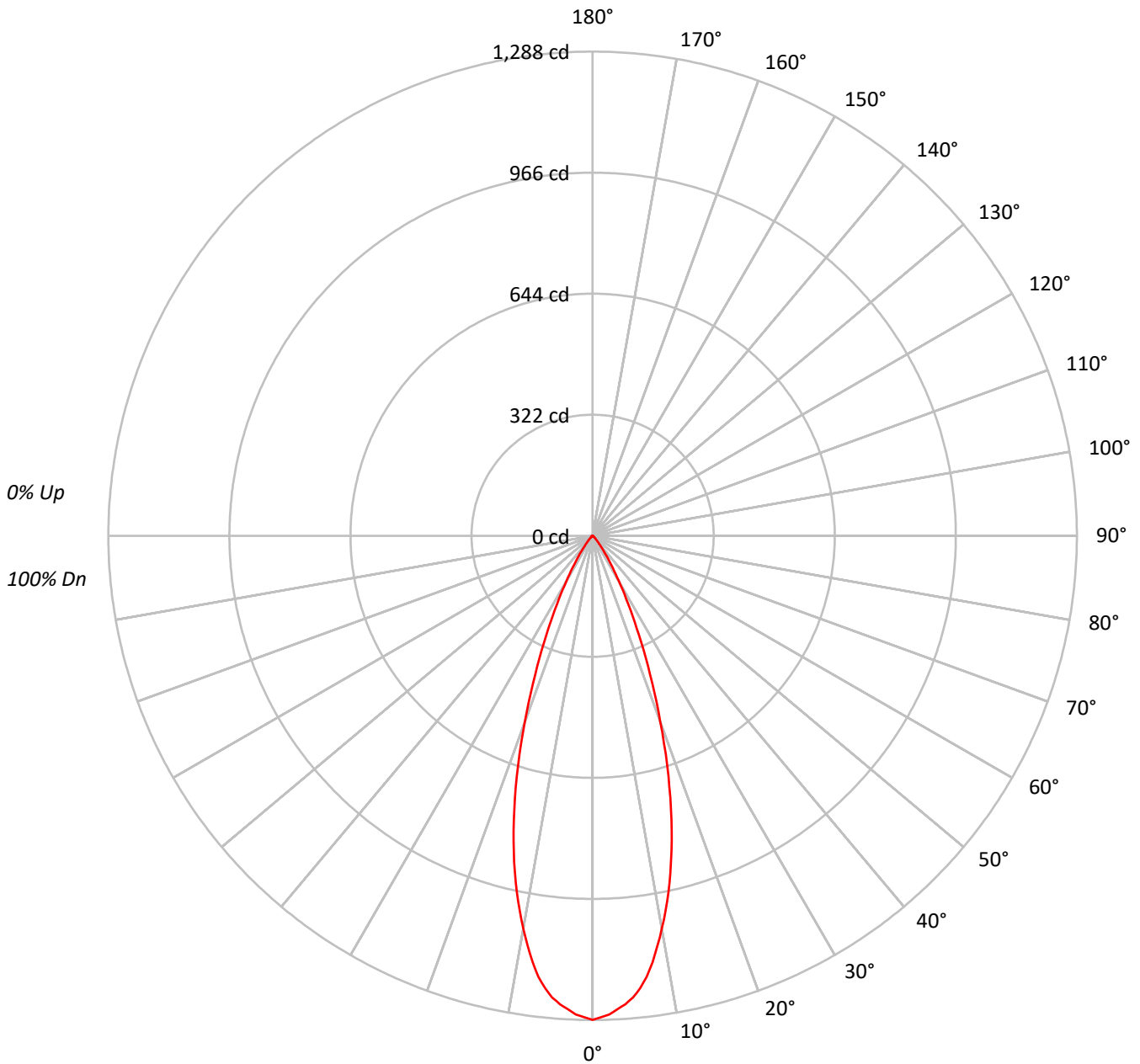
Input Watts (W): 7.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	498824
5°	479344
10°	417275
15°	325821
20°	216696
25°	124071
30°	61678
35°	28372
40°	11377
45°	5204
50°	2410
55°	1351
60°	775
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.2	21.6
10°-20°	220.3	42.4
20°-30°	136.4	26.2
30°-40°	40.8	7.8
40°-50°	8.2	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°	468.9	90.2
0°-40°	509.7	98.0
0°-60°	519.9	100.0
0°-90°	520.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	520.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1288	
5°	1233	112
15°	812	220
25°	290	136
35°	60	41
45°	10	8
55°	2	2
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1287.8
1°	1280.8
2°	1274.3
3°	1261.3
4°	1249.3
5°	1232.8
6°	1210.3
7°	1181.8
8°	1145.4
9°	1103.9
10°	1060.9
11°	1016.4
12°	969.0
13°	919.5
14°	866.5
15°	812.5
17.5°	670.1
20°	525.7
22.5°	397.8
25°	290.3
27.5°	203.9
30°	137.9
32.5°	90.9
35°	60.0
37.5°	37.5
40°	22.5
42.5°	14.5
45°	9.5
47.5°	6.0
50°	4.0
52.5°	3.0
55°	2.0
57.5°	1.5
60°	1.0
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)