

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: P224909

Luminaire Tested: **LD2B05D010 EU2B05FL409050 2LBD*H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P224909
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (156)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD2B05D010 EU2B05FL409050 2LBD*H
Description: 500 Lumen, 2inch Portfolio LED Downlight
FLOOD OPTIC
SPUN ROUND TRIM WITH HAZE FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 673.0 lumens
Efficiency: N/A
Efficacy: 92.2 lumens/watt
Spacing Criteria (0/90/45): 0.6 / 0.6 / 0.59
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

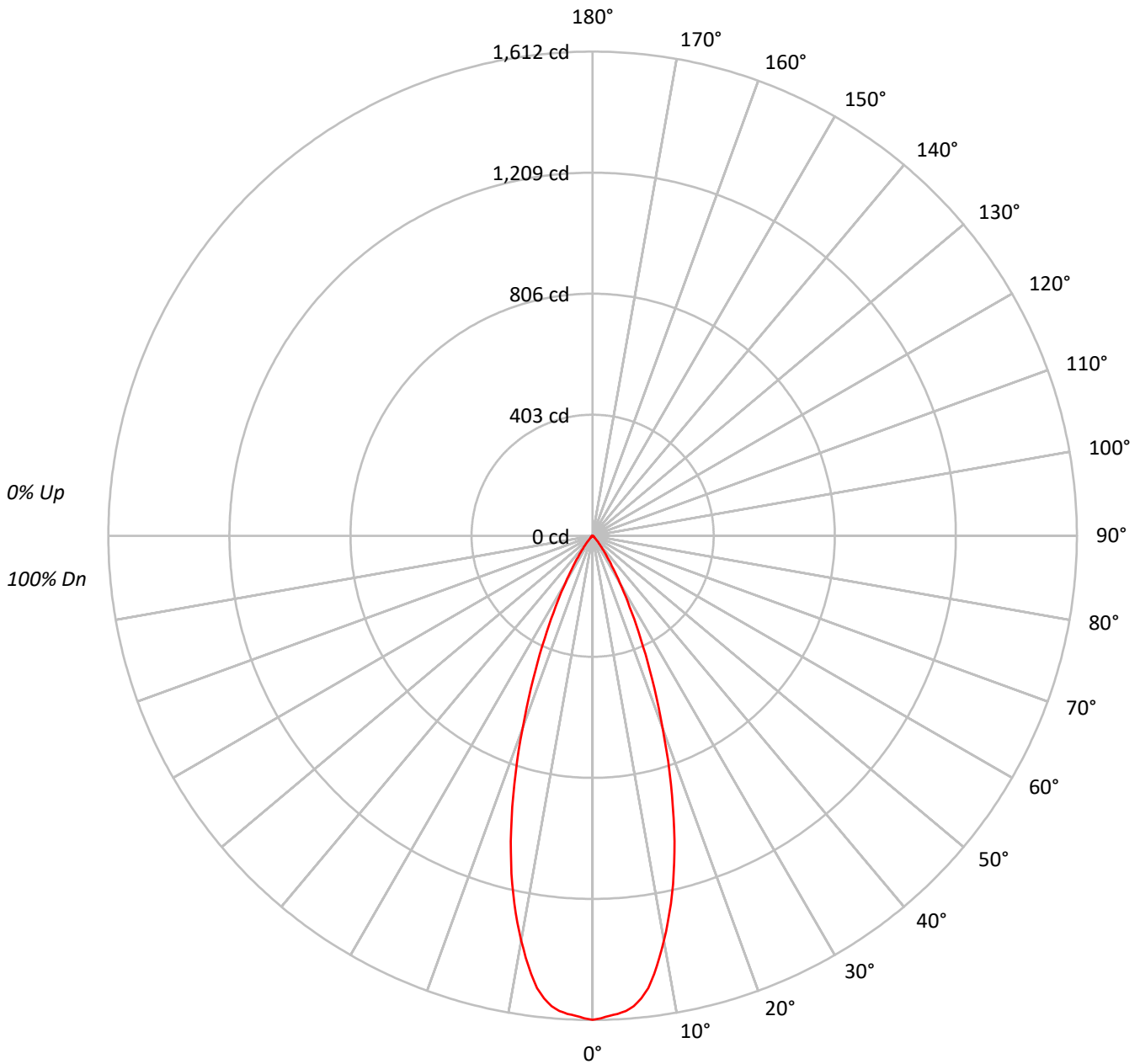
Input Watts (W): 7.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	100
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95	95	95	95
2	110	106	103	100	108	104	101	99	101	99	97	98	96	94	96	94	93	91	91	91	91
3	106	100	96	93	104	99	95	92	97	94	91	94	92	90	92	90	88	87	87	87	87
4	102	96	91	88	100	94	90	87	92	89	86	91	88	85	89	86	84	83	83	83	83
5	98	91	86	83	96	90	86	82	89	85	82	87	84	81	86	83	80	79	79	79	79
6	94	87	82	79	93	86	82	78	85	81	78	84	80	77	82	79	77	76	76	76	76
7	91	83	78	75	90	83	78	75	82	77	74	80	77	74	79	76	74	73	73	73	73
8	88	80	75	72	87	79	75	72	78	74	71	77	74	71	77	73	71	70	70	70	70
9	85	77	72	69	84	76	72	69	75	71	68	75	71	68	74	70	68	67	67	67	67
10	82	74	69	66	81	73	69	66	73	69	66	72	68	66	71	68	65	64	64	64	64

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	624247
5°	611156
10°	538260
15°	422304
20°	280423
25°	160997
30°	80732
35°	37309
40°	15169
45°	6793
50°	3555
55°	2229
60°	1007
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.6	21.3
10°-20°	285.0	42.4
20°-30°	177.1	26.3
30°-40°	53.4	7.9
40°-50°	10.9	1.6
50°-60°	2.8	0.4
60°-70°	0.2	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°	605.7	90.0
0°-40°	659.1	97.9
0°-60°	672.9	100.0
0°-90°	673.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	673.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1612	
5°	1572	144
15°	1053	285
25°	377	177
35°	79	53
45°	12	11
55°	3	3
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1611.6
1°	1606.4
2°	1599.2
3°	1594.0
4°	1586.2
5°	1571.8
6°	1549.0
7°	1517.7
8°	1472.8
9°	1421.9
10°	1368.5
11°	1311.8
12°	1252.5
13°	1190.6
14°	1122.8
15°	1053.1
17.5°	866.1
20°	680.3
22.5°	516.1
25°	376.7
27.5°	265.9
30°	180.5
32.5°	118.6
35°	78.9
37.5°	48.9
40°	30.0
42.5°	19.5
45°	12.4
47.5°	7.8
50°	5.9
52.5°	3.9
55°	3.3
57.5°	2.0
60°	1.3
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)