

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: P224998

Luminaire Tested: **LD2B05D010 EU2B05FL408040 2LBDL*LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P224998
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 EU2B05FL408040 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: 763.0 lumens
Efficiency: N/A
Efficacy: 104.5 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

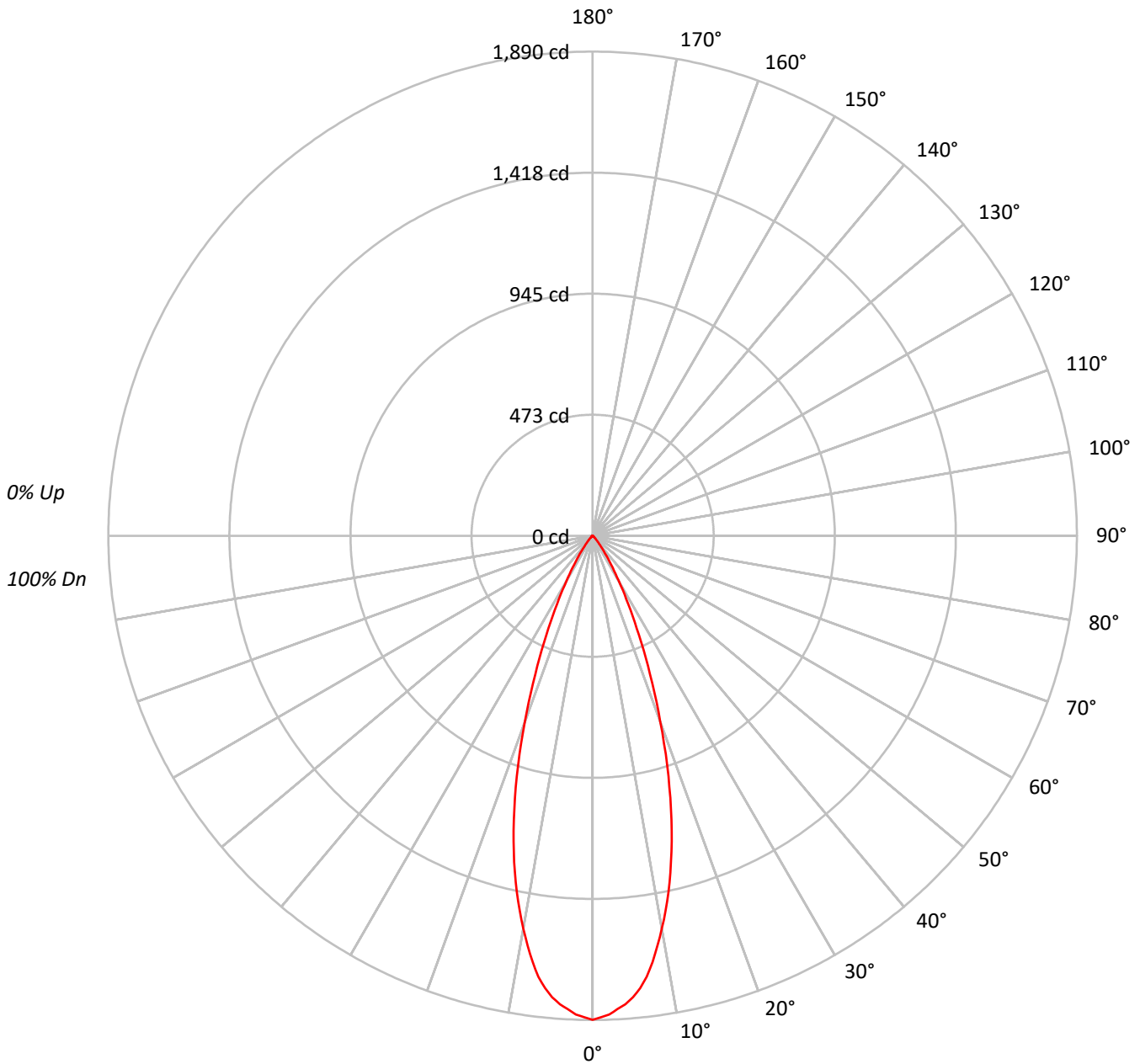
Input Watts (W): 7.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	731929
5°	703347
10°	612283
15°	478124
20°	317975
25°	182068
30°	90527
35°	41612
40°	16686
45°	7614
50°	3555
55°	1958
60°	1162
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.6	21.6
10°-20°	323.3	42.4
20°-30°	200.1	26.2
30°-40°	59.9	7.8
40°-50°	12.0	1.6
50°-60°	2.9	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°	688.0	90.2
0°-40°	747.9	98.0
0°-60°	762.8	100.0
0°-90°	763.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	763.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1890	
5°	1809	165
15°	1192	323
25°	426	200
35°	88	60
45°	14	12
55°	3	3
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1889.6
1°	1879.3
2°	1869.8
3°	1850.7
4°	1833.1
5°	1808.9
6°	1775.9
7°	1734.1
8°	1680.6
9°	1619.7
10°	1556.7
11°	1491.4
12°	1421.8
13°	1349.2
14°	1271.4
15°	1192.3
17.5°	983.3
20°	771.4
22.5°	583.7
25°	426.0
27.5°	299.2
30°	202.4
32.5°	133.4
35°	88.0
37.5°	55.0
40°	33.0
42.5°	21.3
45°	13.9
47.5°	8.8
50°	5.9
52.5°	4.4
55°	2.9
57.5°	2.2
60°	1.5
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)