

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: P224615

Luminaire Tested: **LD2B05D010 EU2B05FL408027 2LBDLC*MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P224615
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14836)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD2B05D010 EU2B05FL408027 2LBDLC*MMS
Description: 500 Lumen, 2inch Portfolio LED Downlight
FLOOD OPTIC
LENSED CAST ROUND TRIM WITH MATTE METALLIC SILVER
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 697.0 lumens
Efficiency: N/A
Efficacy: 95.5 lumens/watt
Spacing Criteria (0/90/45): 0.61 / 0.61 / 0.59
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

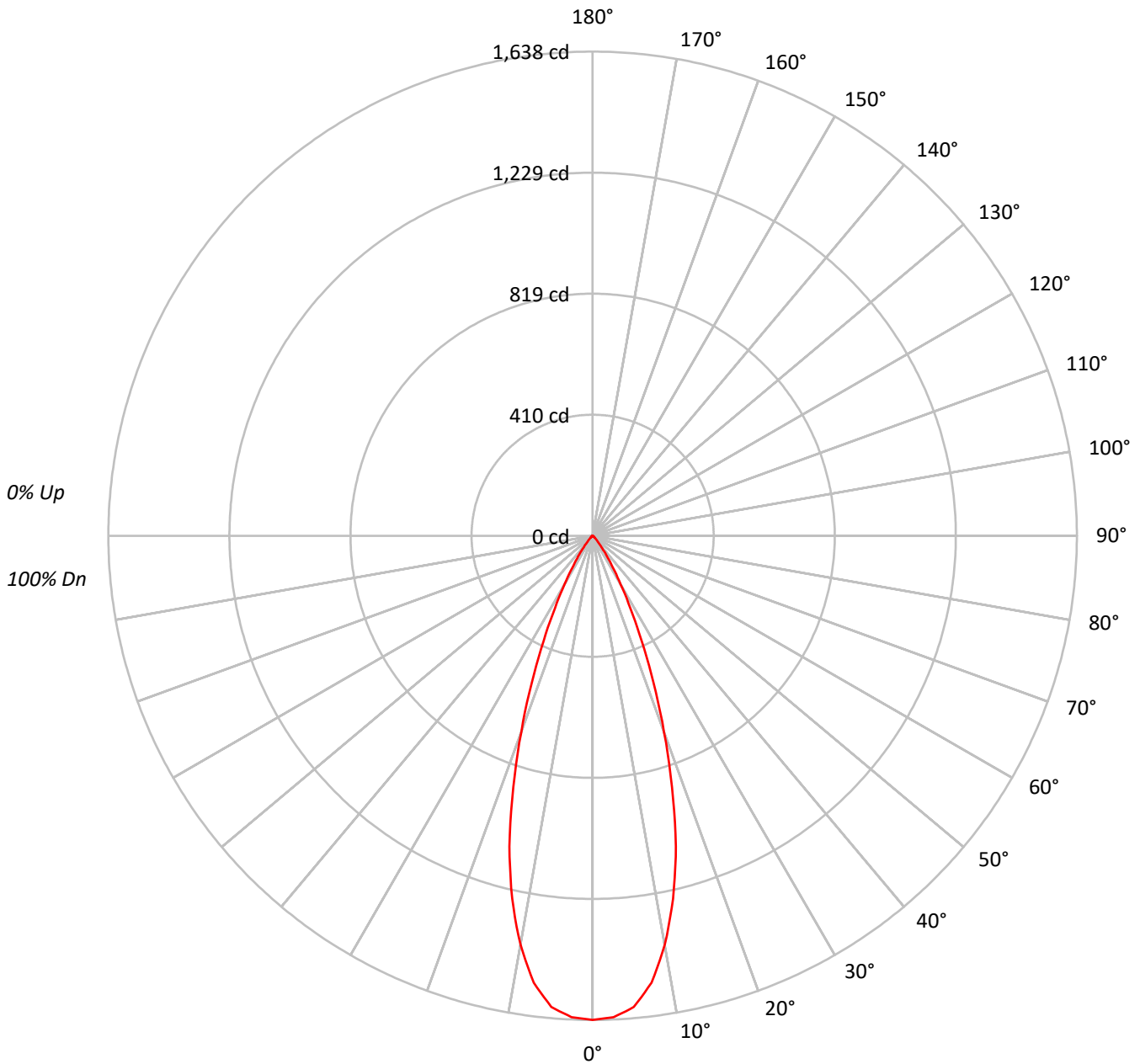
Input Watts (W): 7.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				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	106	102	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	83	81	85	82	80	79				79
6	94	87	82	78	93	86	82	78	85	81	78	83	80	77	82	79	77	76				76
7	91	83	78	75	89	82	78	75	81	77	74	80	77	74	79	76	73	72				72
8	87	80	75	71	86	79	75	71	78	74	71	77	73	71	76	73	70	69				69
9	84	76	72	68	83	76	71	68	75	71	68	74	71	68	74	70	68	67				67
10	81	74	69	66	81	73	69	66	72	68	65	72	68	65	71	68	65	64				64

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	634473
5°	622276
10°	552774
15°	436219
20°	290934
25°	167451
30°	84802
35°	39768
40°	16282
45°	7340
50°	3796
55°	2431
60°	1394
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.5	21.0
10°-20°	294.0	42.2
20°-30°	184.1	26.4
30°-40°	57.0	8.2
40°-50°	11.8	1.7
50°-60°	3.3	0.5
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°	624.5	89.6
0°-40°	681.5	97.8
0°-60°	696.6	99.9
0°-90°	697.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	697.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1638	
5°	1600	146
15°	1088	294
25°	392	184
35°	84	57
45°	13	12
55°	4	3
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1638.0
2.5°	1629.9
5°	1600.4
7.5°	1525.2
10°	1405.4
12.5°	1257.8
15°	1087.8
17.5°	891.9
20°	705.8
22.5°	536.7
25°	391.8
27.5°	275.5
30°	189.6
32.5°	127.0
35°	84.1
37.5°	52.8
40°	32.2
42.5°	20.6
45°	13.4
47.5°	8.9
50°	6.3
52.5°	4.5
55°	3.6
57.5°	2.7
60°	1.8
62.5°	0.9
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)