

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: P224688

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P224688
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14835)
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*MW
Description: 500 Lumen, 2inch Portfolio LED Downlight
FLOOD OPTIC
LENSED CAST ROUND TRIM WITH MATTE WHITE FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 698.0 lumens
Efficiency: N/A
Efficacy: 95.6 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

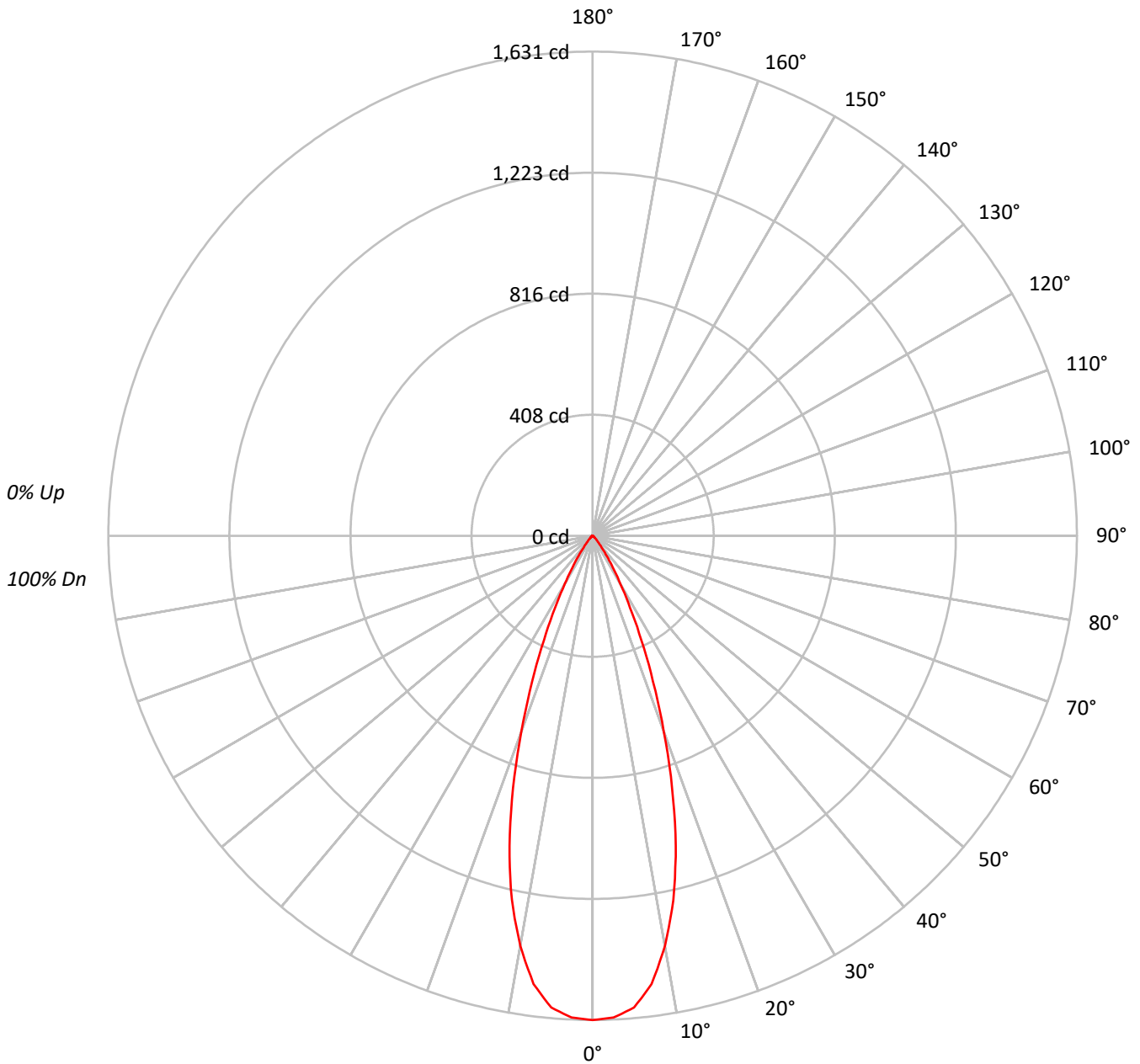
Input Watts (W): 7.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	99	108	104	101	98	101	98	96	98	96	94	95	94	92	91				91															
3	105	100	96	93	104	99	95	92	96	93	90	94	91	89	92	90	88	86				86															
4	101	95	90	87	100	94	90	86	92	88	85	90	87	85	88	86	84	82				82															
5	98	91	86	82	96	90	85	82	88	84	81	86	83	80	85	82	80	79				79															
6	94	86	82	78	93	86	81	78	84	80	77	83	79	77	82	79	76	75				75															
7	90	83	78	74	89	82	77	74	81	77	74	80	76	73	79	76	73	72				72															
8	87	79	74	71	86	79	74	71	78	74	71	77	73	70	76	73	70	69				69															
9	84	76	71	68	83	76	71	68	75	71	68	74	70	67	73	70	67	66				66															
10	81	73	68	65	80	73	68	65	72	68	65	71	68	65	71	67	65	64				64															

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	631916
5°	620410
10°	551515
15°	433732
20°	288626
25°	165699
30°	83684
35°	39389
40°	15827
45°	7833
50°	4339
55°	3039
60°	2789
65°	1650
70°	2039
75°	1347
80°	2008
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.1	20.9
10°-20°	293.0	42.0
20°-30°	182.3	26.1
30°-40°	56.0	8.0
40°-50°	12.3	1.8
50°-60°	4.4	0.6
60°-70°	2.2	0.3
70°-80°	1.3	0.2
80°-90°	0.4	0.1
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°	621.4	89.0
0°-40°	677.4	97.0
0°-60°	694.1	99.4
0°-90°	698.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	698.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1631	
5°	1596	146
15°	1082	293
25°	388	182
35°	83	56
45°	14	12
55°	4	4
65°	2	2
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1631.4
2.5°	1624.2
5°	1595.6
7.5°	1523.0
10°	1402.2
12.5°	1257.1
15°	1081.6
17.5°	890.0
20°	700.2
22.5°	531.0
25°	387.7
27.5°	273.1
30°	187.1
32.5°	126.2
35°	83.3
37.5°	50.1
40°	31.3
42.5°	21.5
45°	14.3
47.5°	9.8
50°	7.2
52.5°	6.3
55°	4.5
57.5°	3.6
60°	3.6
62.5°	2.7
65°	1.8
67.5°	1.8
70°	1.8
72.5°	1.8
75°	0.9
77.5°	0.9
80°	0.9
82.5°	0.9
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)