

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: P224595

Luminaire Tested: **LD2B05D010 EU2B05FL409050 2LBDLC*MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P224595
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 EU2B05FL409050 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: 624.0 lumens
Efficiency: N/A
Efficacy: 85.5 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

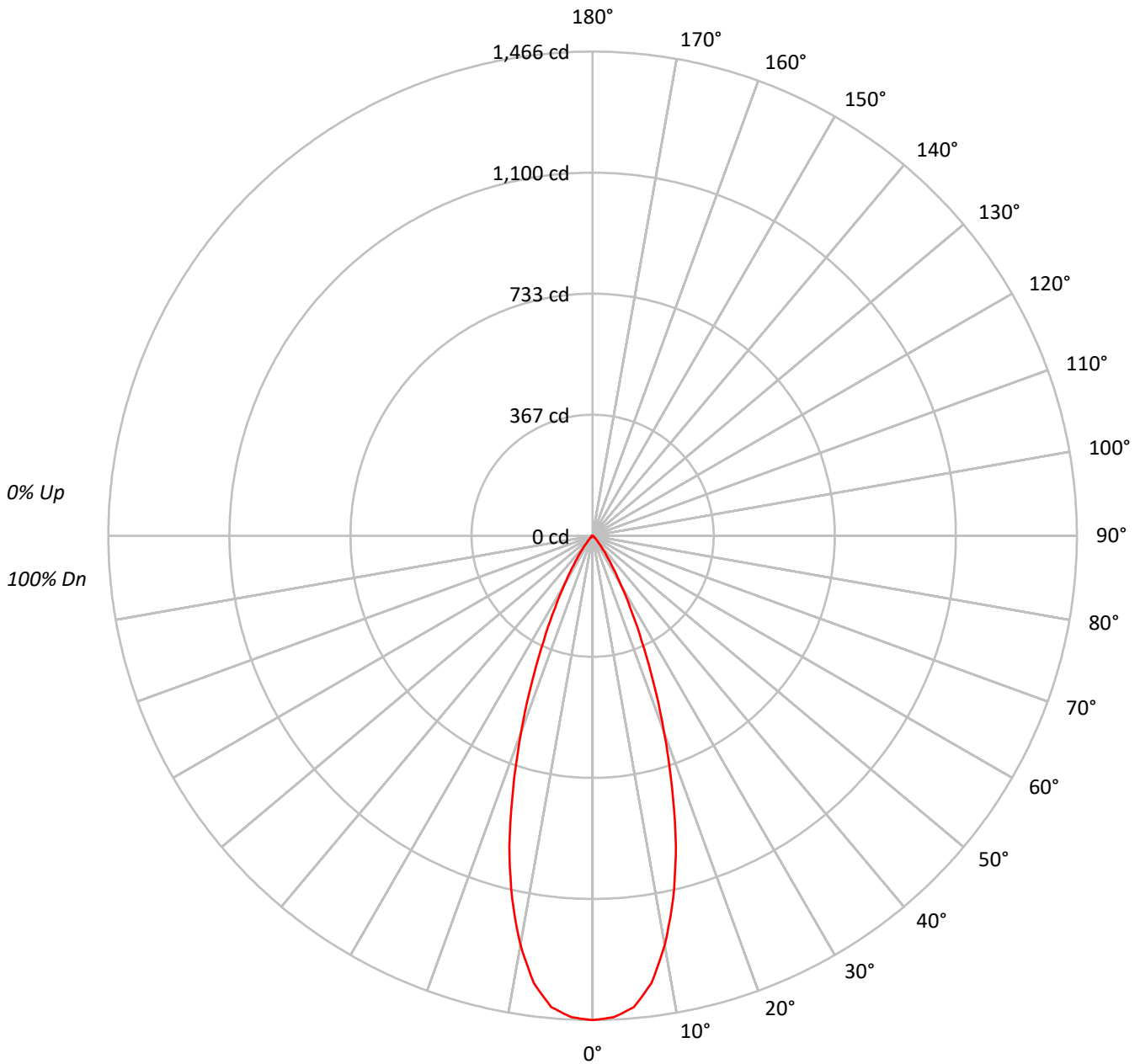
Input Watts (W): 7.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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	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	83	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°	568004
5°	557109
10°	494877
15°	390544
20°	260472
25°	149928
30°	75946
35°	35607
40°	14563
45°	6573
50°	3375
55°	2161
60°	1240
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.1	21.0
10°-20°	263.2	42.2
20°-30°	164.8	26.4
30°-40°	51.0	8.2
40°-50°	10.5	1.7
50°-60°	2.9	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°	559.1	89.6
0°-40°	610.2	97.8
0°-60°	623.6	99.9
0°-90°	624.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	624.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1466	
5°	1433	131
15°	974	263
25°	351	165
35°	75	51
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°	1466.4
2.5°	1459.2
5°	1432.8
7.5°	1365.5
10°	1258.2
12.5°	1126.0
15°	973.9
17.5°	798.5
20°	631.9
22.5°	480.5
25°	350.8
27.5°	246.7
30°	169.8
32.5°	113.7
35°	75.3
37.5°	47.3
40°	28.8
42.5°	18.4
45°	12.0
47.5°	8.0
50°	5.6
52.5°	4.0
55°	3.2
57.5°	2.4
60°	1.6
62.5°	0.8
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)