

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: P225377

Luminaire Tested: **LD2B05D010 EU2B05FL409027 2LBDC*MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P225377
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14834)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD2B05D010 EU2B05FL409027 2LBDC*MB
Description: 500 Lumen, 2inch Portfolio LED Downlight
FLOOD OPTIC
CAST ROUND TRIM WITH MATTE BLACK FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 589.0 lumens
Efficiency: N/A
Efficacy: 80.7 lumens/watt
Spacing Criteria (0/90/45): 0.61 / 0.61 / 0.6
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

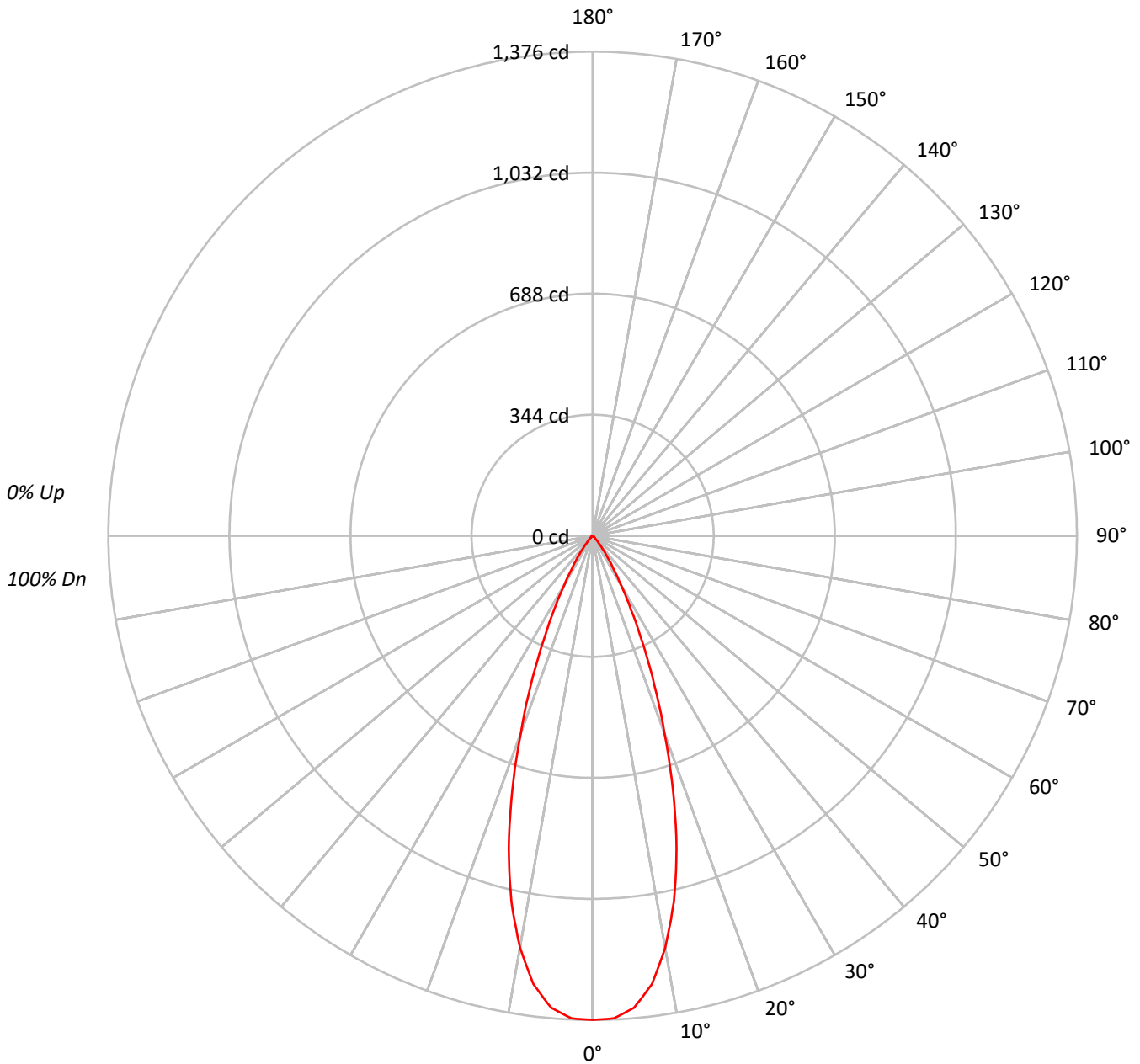
Input Watts (W): 7.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95		
2	110	106	103	100	108	104	101	99	101	99	96	98	96	94	95	94	92	91		
3	106	100	96	93	104	99	95	92	97	93	91	94	92	89	92	90	88	87		
4	102	95	91	87	100	94	90	87	92	89	86	90	87	85	89	86	84	83		
5	98	91	86	83	96	90	86	82	88	85	82	87	84	81	85	83	80	79		
6	94	87	82	79	93	86	82	78	85	81	78	84	80	77	82	79	77	76		
7	91	83	78	75	90	83	78	75	81	77	74	80	77	74	79	76	74	72		
8	87	80	75	72	86	79	75	71	78	74	71	77	74	71	76	73	71	69		
9	84	77	72	69	83	76	72	68	75	71	68	74	71	68	74	70	68	67		
10	82	74	69	66	81	73	69	66	73	68	65	72	68	65	71	68	65	64		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	532911
5°	523670
10°	467148
15°	369250
20°	246210
25°	142833
30°	71474
35°	33620
40°	13147
45°	5861
50°	2772
55°	1553
60°	620
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.5	21.0
10°-20°	249.2	42.3
20°-30°	156.8	26.6
30°-40°	47.9	8.1
40°-50°	9.4	1.6
50°-60°	2.1	0.4
60°-70°	0.1	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°	529.5	89.9
0°-40°	577.4	98.0
0°-60°	588.9	100.0
0°-90°	589.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	589.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1376	
5°	1347	123
15°	921	249
25°	334	157
35°	71	48
45°	11	9
55°	2	2
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1375.8
2.5°	1372.8
5°	1346.8
7.5°	1285.6
10°	1187.7
12.5°	1065.3
15°	920.8
17.5°	760.2
20°	597.3
22.5°	458.1
25°	334.2
27.5°	235.6
30°	159.8
32.5°	107.8
35°	71.1
37.5°	43.6
40°	26.0
42.5°	16.8
45°	10.7
47.5°	6.9
50°	4.6
52.5°	3.1
55°	2.3
57.5°	1.5
60°	0.8
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
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)