

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: P224707

Luminaire Tested: **LD2B05D010 EU2B05FL408040 2LBD*MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P224707
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 EU2B05FL408040 2LBD*MW
Description: 500 Lumen, 2inch Portfolio LED Downlight
FLOOD OPTIC
SPUN ROUND TRIM WITH MATTE WHITE FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 805.0 lumens
Efficiency: N/A
Efficacy: 110.3 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

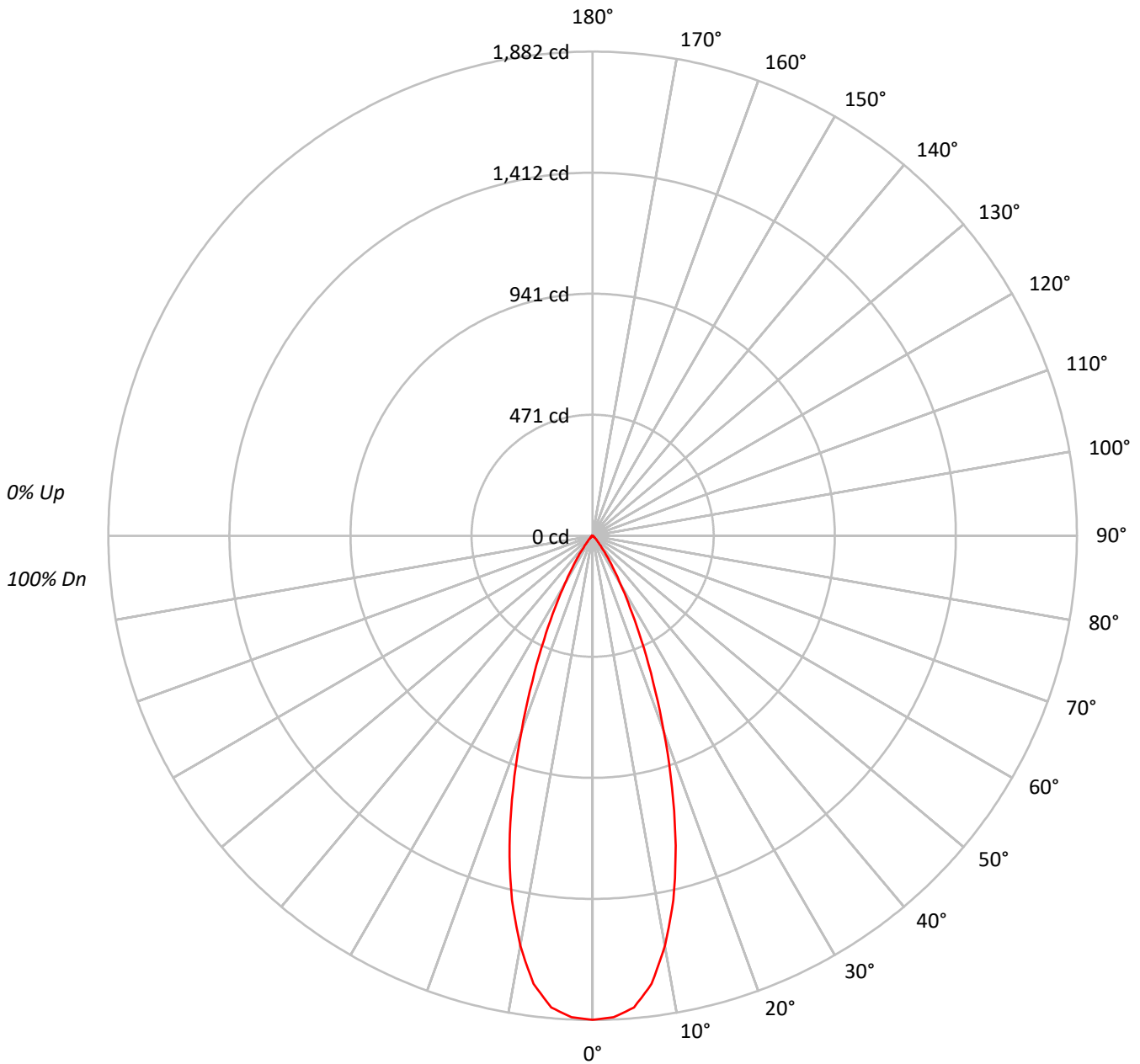
Input Watts (W): 7.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
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			
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95			
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	94	92	91			
3	105	100	96	93	104	99	95	92	96	93	90	94	91	89	92	90	88	86			
4	101	95	90	87	100	94	90	86	92	88	85	90	87	85	88	86	84	82			
5	98	91	86	82	96	90	85	82	88	84	81	86	83	80	85	82	80	79			
6	94	86	82	78	93	86	81	78	84	80	77	83	79	77	82	79	76	75			
7	90	83	78	74	89	82	77	74	81	77	74	80	76	73	79	76	73	72			
8	87	79	74	71	86	79	74	71	78	74	71	77	73	70	76	73	70	69			
9	84	76	71	68	83	76	71	68	75	71	68	74	70	67	73	70	67	66			
10	81	73	68	65	80	73	68	65	72	68	65	71	68	65	71	67	65	64			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	728791
5°	715517
10°	636040
15°	500220
20°	332856
25°	191086
30°	96521
35°	45395
40°	18254
45°	9039
50°	5002
55°	3512
60°	3176
65°	1925
70°	2378
75°	1497
80°	2231
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.5	20.9
10°-20°	337.9	42.0
20°-30°	210.2	26.1
30°-40°	64.6	8.0
40°-50°	14.2	1.8
50°-60°	5.0	0.6
60°-70°	2.6	0.3
70°-80°	1.5	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°	716.6	89.0
0°-40°	781.3	97.1
0°-60°	800.5	99.4
0°-90°	805.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	805.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1882	
5°	1840	169
15°	1247	338
25°	447	210
35°	96	65
45°	16	14
55°	5	5
65°	2	3
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1881.5
2.5°	1873.2
5°	1840.2
7.5°	1756.5
10°	1617.1
12.5°	1449.8
15°	1247.4
17.5°	1026.4
20°	807.5
22.5°	612.4
25°	447.1
27.5°	315.0
30°	215.8
32.5°	145.6
35°	96.0
37.5°	57.8
40°	36.1
42.5°	24.8
45°	16.5
47.5°	11.4
50°	8.3
52.5°	7.2
55°	5.2
57.5°	4.1
60°	4.1
62.5°	3.1
65°	2.1
67.5°	2.1
70°	2.1
72.5°	2.1
75°	1.0
77.5°	1.0
80°	1.0
82.5°	1.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)