

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: P#

Luminaire Tested: **LD2B05D010 EU2B05WFL559727 2LBDC**MW***

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14810)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD2B05D010 EU2B05WFL559727 2LBDC*MW
Description: 500 Lumen, 2inch Portfolio LED Downlight
WIDE FLOOD OPTIC
CAST ROUND TRIM WITH MATTE WHITE FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 504.1 lumens
Efficiency: N/A
Efficacy: 69.1 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 0.79 / 0.84
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

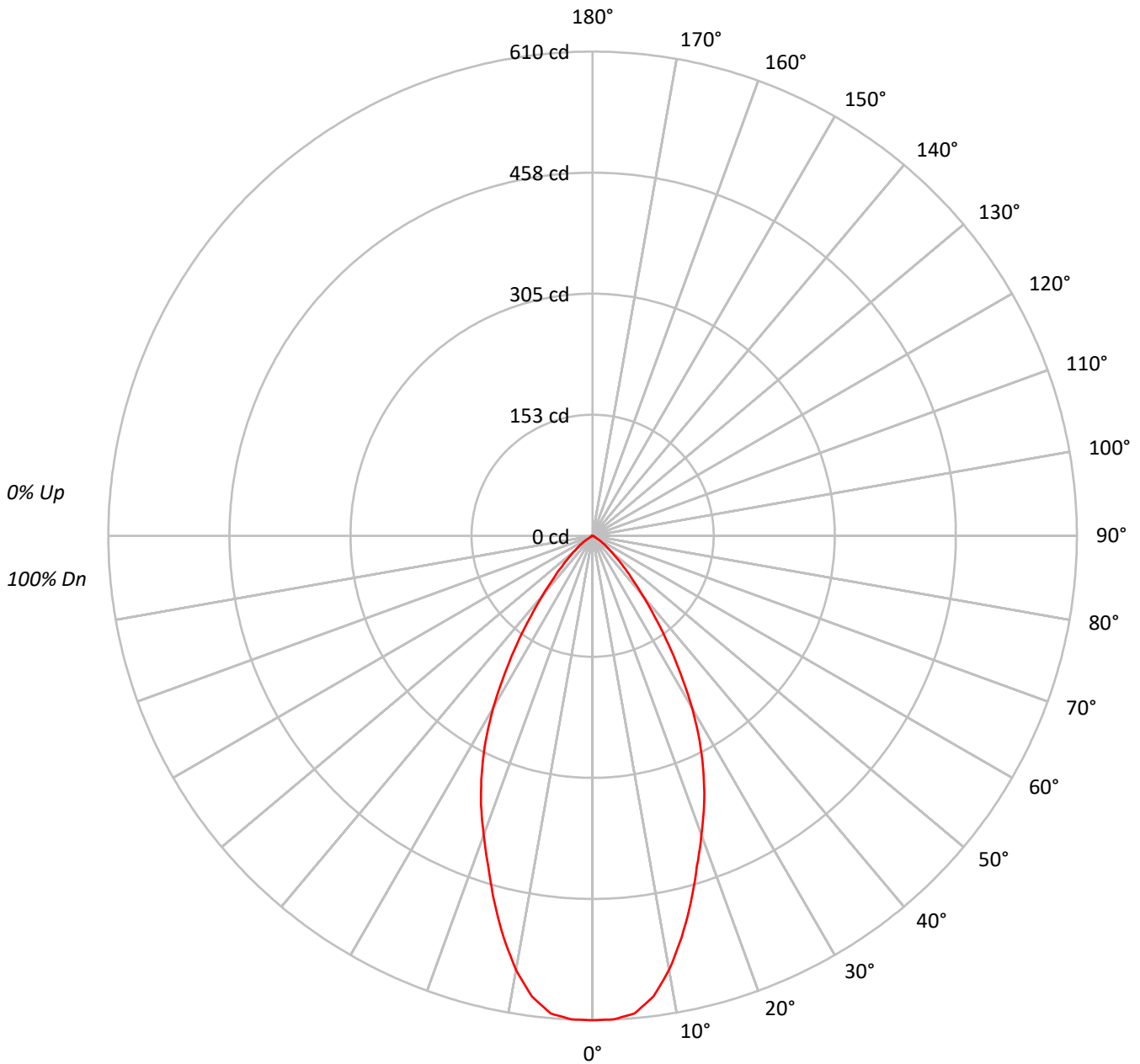
Input Watts (W): 7.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	110	108	106	111	108	106	104	104	102	101	101	99	98	97	96	95	93				93
2	108	102	98	95	105	101	97	94	98	94	92	95	92	90	92	90	88	86				86
3	102	95	90	86	100	94	89	85	91	87	84	89	85	83	87	84	81	80				80
4	97	89	83	79	95	88	82	78	85	81	77	83	80	76	82	78	76	74				74
5	91	83	77	72	90	82	76	72	80	75	71	78	74	71	77	73	70	69				69
6	87	78	71	67	85	77	71	67	75	70	66	74	69	66	73	69	65	64				64
7	82	73	67	62	81	72	66	62	71	66	62	70	65	62	69	64	61	60				60
8	78	69	62	58	77	68	62	58	67	62	58	66	61	58	65	61	57	56				56
9	74	65	59	55	73	64	58	54	63	58	54	62	57	54	61	57	54	52				52
10	71	61	55	51	70	61	55	51	60	55	51	59	54	51	58	54	51	49				49

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	236436
5°	234928
10°	218372
15°	191723
20°	165253
25°	141338
30°	112175
35°	78164
40°	49452
45°	30183
50°	17837
55°	9792
60°	2169
65°	1925
70°	1586
75°	2095
80°	1561
85°	3111



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.1	11.1
10°-20°	133.1	26.4
20°-30°	150.2	29.8
30°-40°	103.9	20.6
40°-50°	44.3	8.8
50°-60°	12.8	2.5
60°-70°	1.9	0.4
70°-80°	1.2	0.2
80°-90°	0.5	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°	339.5	67.3
0°-40°	443.4	88.0
0°-60°	500.5	99.3
0°-90°	504.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	504.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	610	
5°	604	56
15°	478	133
25°	331	150
35°	165	104
45°	55	44
55°	14	13
65°	2	2
75°	1	1
85°	1	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	610.4
2.5°	609.7
5°	604.2
7.5°	585.6
10°	555.2
12.5°	518.0
15°	478.1
17.5°	436.8
20°	400.9
22.5°	367.2
25°	330.7
27.5°	292.1
30°	250.8
32.5°	206.0
35°	165.3
37.5°	128.1
40°	97.8
42.5°	73.7
45°	55.1
47.5°	40.0
50°	29.6
52.5°	21.4
55°	14.5
57.5°	6.2
60°	2.8
62.5°	2.1
65°	2.1
67.5°	1.4
70°	1.4
72.5°	1.4
75°	1.4
77.5°	0.7
80°	0.7
82.5°	0.7
85°	0.7
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)