

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 EU2B05WFL559040 2LBDL*H**

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 (P14807)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD2B05D010 EU2B05WFL559040 2LBDL*H
Description: 500 Lumen, 2inch Portfolio LED Downlight
WIDE FLOOD OPTIC
LENSED SPUN ROUND TRIM WITH HAZE FINISH
Light Source: -
Ballast/Driver: -

Summary

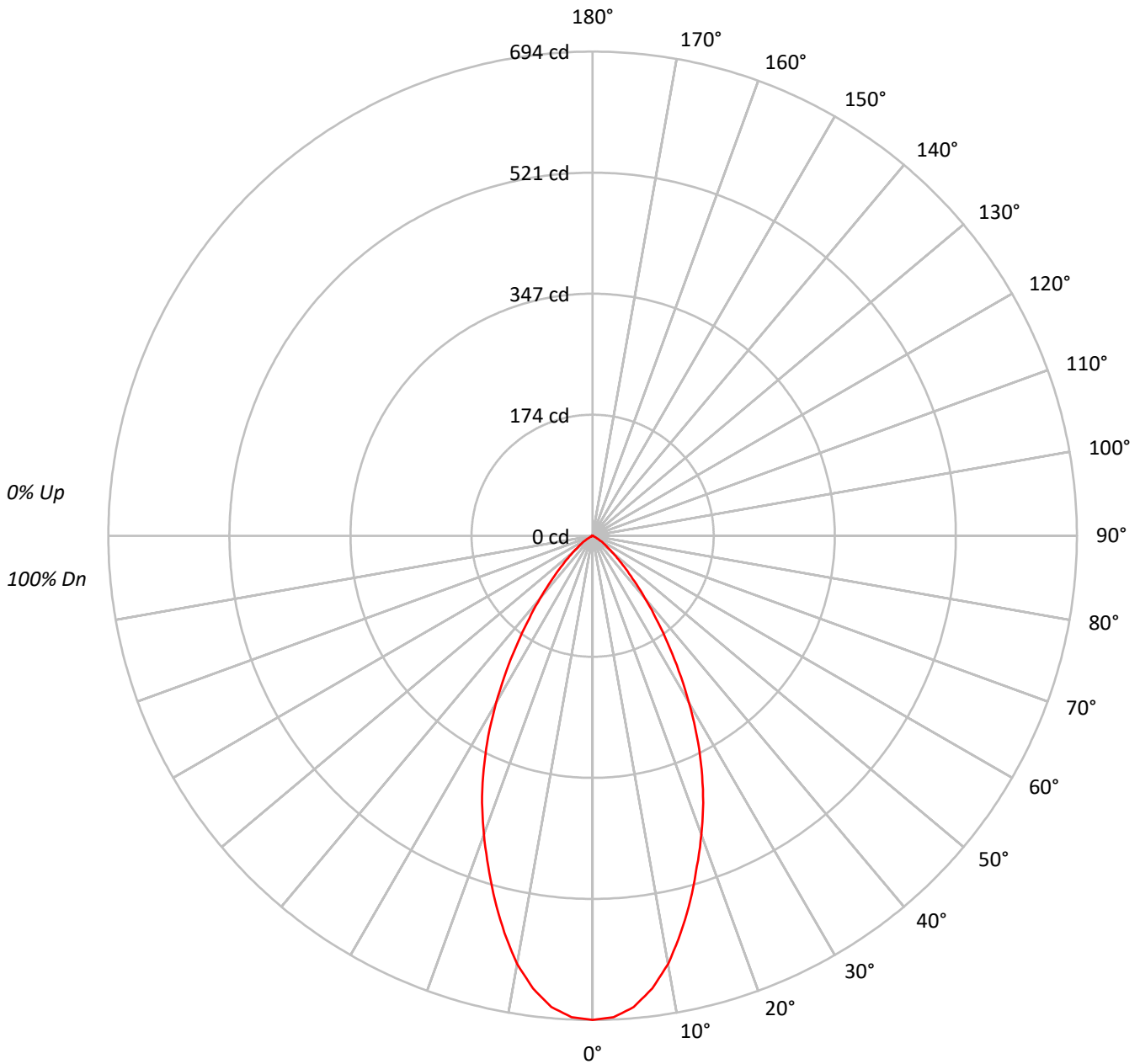
Lumens per Lamp: N/A
Luminaire Lumens: 572.9 lumens
Efficiency: N/A
Efficacy: 78.5 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 0.79 / 0.83
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

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	111	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	86	84	81	80				80
4	96	89	83	79	95	87	82	78	85	81	77	83	79	76	81	78	75	74				74
5	91	83	77	72	90	82	76	72	80	75	71	78	74	71	77	73	70	68				68
6	87	77	71	67	85	77	71	67	75	70	66	74	69	66	72	68	65	64				64
7	82	73	66	62	81	72	66	62	71	65	62	69	65	61	68	64	61	59				59
8	78	68	62	58	77	68	62	58	67	61	57	66	61	57	65	60	57	56				56
9	74	64	58	54	73	64	58	54	63	58	54	62	57	54	61	57	54	52				52
10	71	61	55	51	70	60	55	51	60	54	51	59	54	51	58	54	50	49				49

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	268818
5°	263585
10°	245039
15°	216946
20°	187801
25°	157878
30°	123625
35°	88331
40°	58958
45°	36592
50°	21875
55°	13101
60°	5888
65°	733
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.9	11.0
10°-20°	150.7	26.3
20°-30°	168.0	29.3
30°-40°	117.7	20.5
40°-50°	53.7	9.4
50°-60°	17.9	3.1
60°-70°	1.9	0.3
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°	381.6	66.6
0°-40°	499.3	87.2
0°-60°	571.0	99.7
0°-90°	572.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	572.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	694	
5°	678	63
15°	541	151
25°	369	168
35°	187	118
45°	67	54
55°	19	18
65°	1	2
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	694.0
2.5°	690.6
5°	677.9
7.5°	654.2
10°	623.0
12.5°	583.2
15°	541.0
17.5°	497.0
20°	455.6
22.5°	414.2
25°	369.4
27.5°	323.7
30°	276.4
32.5°	229.9
35°	186.8
37.5°	148.8
40°	116.6
42.5°	88.8
45°	66.8
47.5°	49.9
50°	36.3
52.5°	26.2
55°	19.4
57.5°	13.5
60°	7.6
62.5°	2.5
65°	0.8
67.5°	0.8
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)