

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: P225477

Luminaire Tested: **LD2B05D010 EU2B05FL409035 2LBDL*H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P225477
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14832)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD2B05D010 EU2B05FL409035 2LBDL*H
Description: 500 Lumen, 2inch Portfolio LED Downlight
FLOOD OPTIC
LENSED SPUN ROUND TRIM WITH HAZE FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 602.0 lumens
Efficiency: N/A
Efficacy: 82.5 lumens/watt
Spacing Criteria (0/90/45): 0.6 / 0.6 / 0.6
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

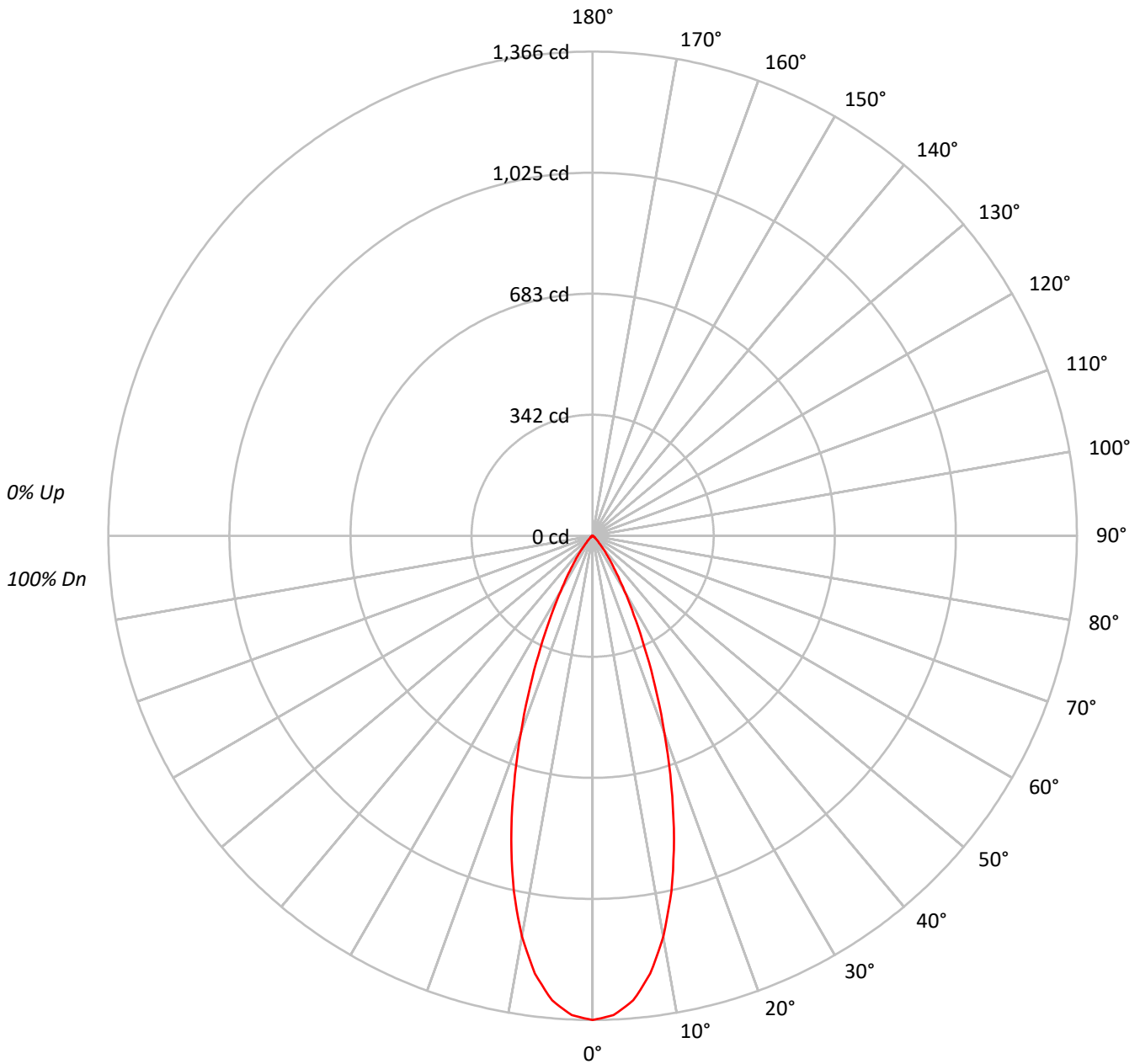
Input Watts (W): 7.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95	95	95	95
2	110	105	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90	90	90	90
3	105	100	96	92	103	98	95	91	96	93	90	94	91	89	91	89	87	86	86	86	86
4	101	95	90	86	99	94	89	86	91	88	85	90	86	84	88	85	83	82	82	82	82
5	97	90	85	81	96	89	84	81	87	83	80	86	82	80	84	81	79	78	78	78	78
6	93	86	81	77	92	85	80	77	84	79	76	82	79	76	81	78	75	74	74	74	74
7	90	82	77	73	88	81	76	73	80	76	73	79	75	72	78	75	72	71	71	71	71
8	86	78	73	70	85	78	73	70	77	72	69	76	72	69	75	71	69	68	68	68	68
9	83	75	70	67	82	75	70	67	74	69	66	73	69	66	72	69	66	65	65	65	65
10	80	72	67	64	79	72	67	64	71	67	64	70	66	64	70	66	63	62	62	62	62

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	529192
5°	511578
10°	451376
15°	355616
20°	244355
25°	147577
30°	79972
35°	41092
40°	20074
45°	9532
50°	5002
55°	3377
60°	1937
65°	733
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.2	20.0
10°-20°	241.4	40.1
20°-30°	161.3	26.8
30°-40°	58.4	9.7
40°-50°	15.1	2.5
50°-60°	4.5	0.7
60°-70°	1.1	0.2
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°	522.9	86.9
0°-40°	581.3	96.6
0°-60°	600.9	99.8
0°-90°	602.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	602.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1366	
5°	1316	120
15°	887	241
25°	345	161
35°	87	58
45°	17	15
55°	5	5
65°	1	1
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1366.2
2.5°	1353.8
5°	1315.7
7.5°	1246.1
10°	1147.6
12.5°	1026.7
15°	886.8
17.5°	737.7
20°	592.8
22.5°	459.5
25°	345.3
27.5°	251.7
30°	178.8
32.5°	125.9
35°	86.9
37.5°	60.4
40°	39.7
42.5°	25.7
45°	17.4
47.5°	12.4
50°	8.3
52.5°	6.6
55°	5.0
57.5°	3.3
60°	2.5
62.5°	1.7
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)