

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: P225188

Luminaire Tested: **LD2B15D010 EU2B15FL409027 2LBDSQC*MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P225188
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14838)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD2B15D010 EU2B15FL409027 2LBDSQC*MB
Description: 1500 Lumen, 2inch Portfolio LED Downlight
FLOOD OPTIC
SQUARE CAST TRIM WITH MATTE BLACK FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1009.3 lumens
Efficiency: N/A
Efficacy: 70.6 lumens/watt
Spacing Criteria (0/90/45): 0.6 / 0.61 / 0.59
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

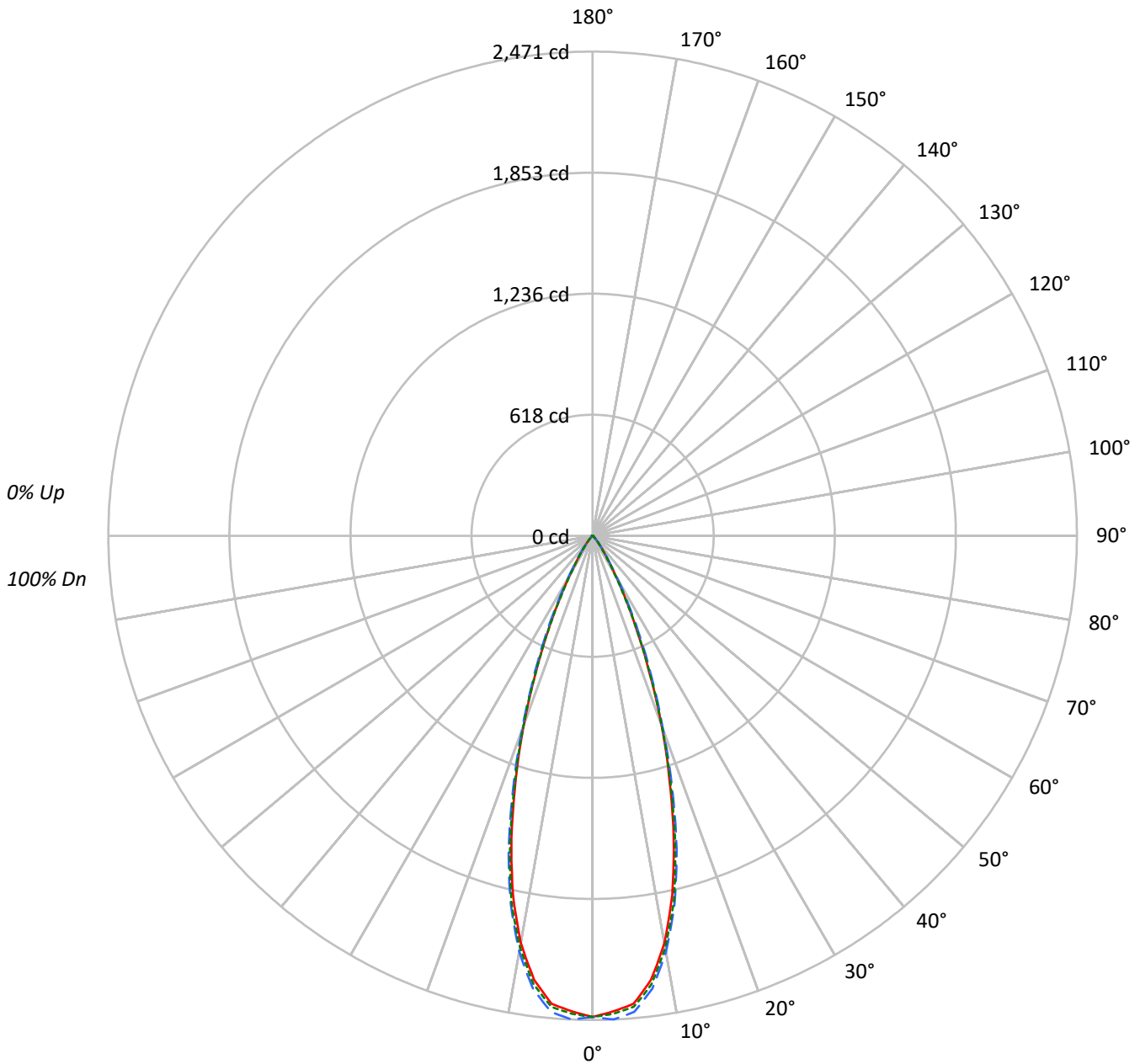
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	115	112	110	108	112	110	108	107	106	105	103	102	101	100	99	98	97	96																			
2	110	106	103	100	108	105	102	99	101	99	97	98	97	95	96	94	93	91																			
3	106	101	97	94	104	99	96	93	97	94	91	95	92	90	92	90	89	87																			
4	102	96	92	88	100	95	91	88	93	89	87	91	88	86	89	87	85	83																			
5	98	92	87	84	97	91	86	83	89	85	82	88	84	82	86	83	81	80																			
6	95	88	83	79	93	87	82	79	86	82	79	84	81	78	83	80	78	77																			
7	91	84	79	76	90	83	79	76	82	78	75	81	78	75	80	77	75	73																			
8	88	81	76	73	87	80	76	73	79	75	72	78	75	72	77	74	72	71																			
9	85	78	73	70	84	77	73	70	76	72	69	76	72	69	75	71	69	68																			
10	82	75	70	67	82	74	70	67	74	70	67	73	69	67	72	69	66	65																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	951128	951128	951128
5°	932326	948346	938236
10°	829672	847529	838876
15°	641055	664153	652604
20°	422881	431950	425148
25°	230662	246518	231859
30°	103811	114859	99517
35°	44827	46104	40903
40°	18759	19467	17344
45°	7505	8272	8272
50°	3314	4158	4158
55°	1823	1823	2769
60°	1085	1085	1085
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.9	22.0
10°-20°	441.8	43.8
20°-30°	261.0	25.9
30°-40°	67.9	6.7
40°-50°	13.4	1.3
50°-60°	2.9	0.3
60°-70°	0.3	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°	924.7	91.6
0°-40°	992.7	98.4
0°-60°	1009.0	100.0
0°-90°	1009.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1009.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2456	2456	2456	2456	2456	
5°	2398	2417	2439	2423	2413	219
15°	1599	1634	1656	1632	1627	434
25°	540	558	577	555	542	254
35°	95	99	98	96	86	66
45°	14	16	15	15	15	13
55°	3	3	3	3	4	3
65°	0	0	0	0	0	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2455.5	2455.5	2455.5	2455.5	2455.5
2.5°	2429.4	2454.2	2470.6	2456.9	2441.8
5°	2397.8	2417.1	2439.0	2422.6	2413.0
7.5°	2285.2	2314.1	2330.6	2322.3	2307.2
10°	2109.4	2131.4	2154.8	2146.5	2132.8
12.5°	1877.3	1907.6	1929.5	1910.3	1913.1
15°	1598.6	1634.3	1656.2	1631.5	1627.4
17.5°	1303.3	1330.8	1345.9	1330.8	1319.8
20°	1025.9	1042.4	1047.9	1041.0	1031.4
22.5°	758.1	775.9	792.4	775.9	763.6
25°	539.7	557.6	576.8	554.8	542.5
27.5°	363.9	374.9	391.4	370.8	352.9
30°	232.1	244.5	256.8	241.7	222.5
32.5°	146.9	155.2	156.6	153.8	137.3
35°	94.8	98.9	97.5	96.1	86.5
37.5°	60.4	60.4	61.8	60.4	54.9
40°	37.1	39.8	38.5	37.1	34.3
42.5°	22.0	24.7	23.3	23.3	22.0
45°	13.7	16.5	15.1	15.1	15.1
47.5°	9.6	11.0	9.6	9.6	11.0
50°	5.5	6.9	6.9	6.9	6.9
52.5°	4.1	4.1	4.1	4.1	5.5
55°	2.7	2.7	2.7	2.7	4.1
57.5°	2.7	2.7	1.4	1.4	2.7
60°	1.4	1.4	1.4	1.4	1.4
62.5°	1.4	0.0	0.0	0.0	1.4
65°	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)