

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: P225213

Luminaire Tested: **LD2B15D010 EU2B15FL408030 2LBDSQC*MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P225213
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 EU2B15FL408030 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: 1305.6 lumens
Efficiency: N/A
Efficacy: 91.3 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

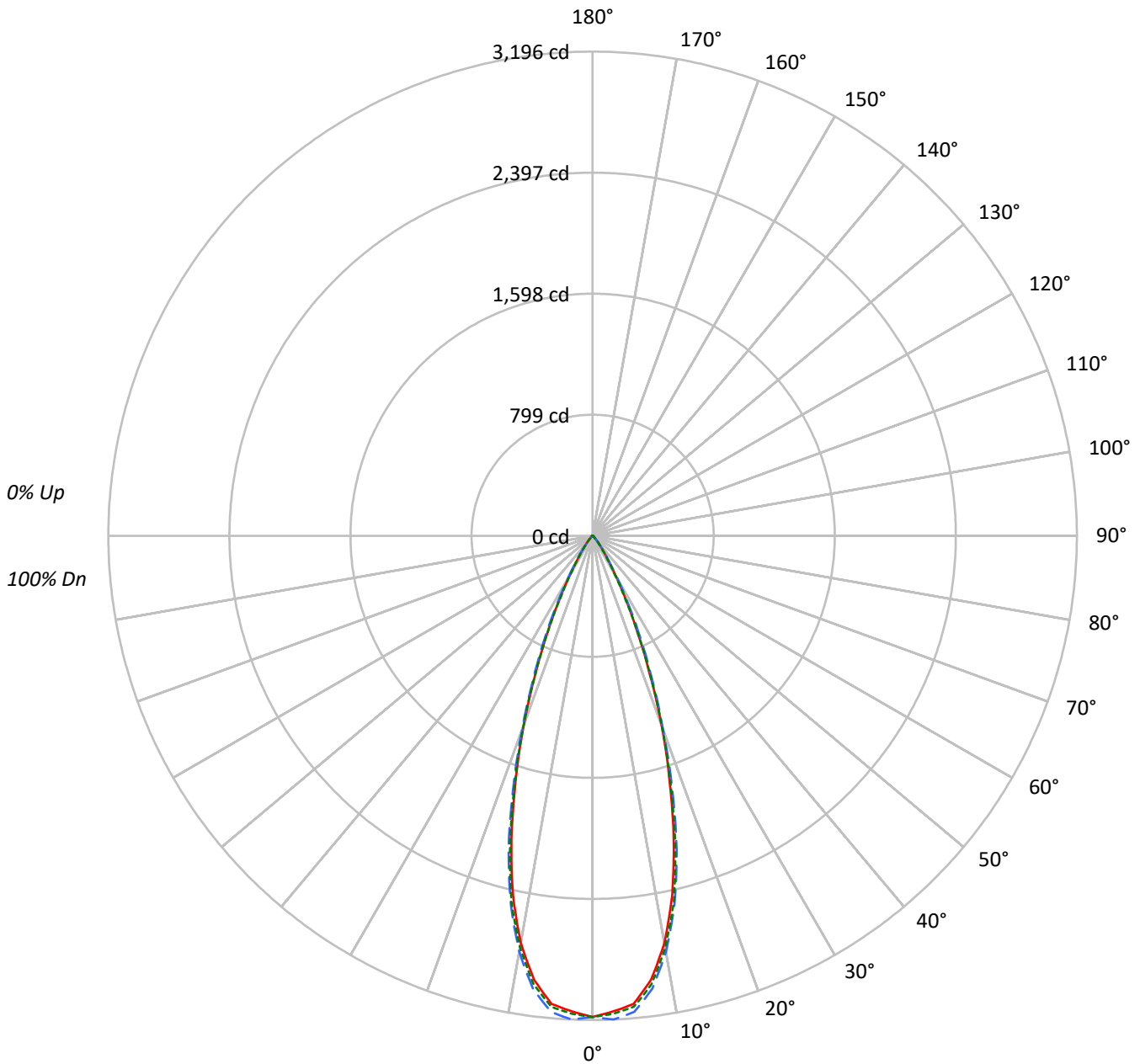
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1230366	1230366	1230366
5°	1206059	1226784	1213641
10°	1073256	1096305	1085134
15°	829249	859164	844206
20°	546996	558744	549964
25°	298403	318875	299899
30°	134270	148583	128724
35°	57973	59628	52913
40°	24271	25131	22451
45°	9751	10682	10682
50°	4278	5363	5363
55°	2431	2431	3579
60°	1394	1394	1394
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°	287.1	22.0
10°-20°	571.5	43.8
20°-30°	337.6	25.9
30°-40°	87.9	6.7
40°-50°	17.4	1.3
50°-60°	3.8	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°	1196.2	91.6
0°-40°	1284.1	98.4
0°-60°	1305.3	100.0
0°-90°	1305.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1305.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3176	3176	3176	3176	3176	
5°	3102	3127	3155	3134	3121	284
15°	2068	2114	2142	2110	2105	561
25°	698	721	746	718	702	329
35°	123	128	126	124	112	86
45°	18	21	20	20	20	16
55°	4	4	4	4	5	4
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°	3176.4	3176.4	3176.4	3176.4	3176.4
2.5°	3142.6	3174.6	3195.9	3178.2	3158.6
5°	3101.8	3126.6	3155.1	3133.8	3121.3
7.5°	2956.1	2993.4	3014.7	3004.1	2984.5
10°	2728.7	2757.1	2787.3	2776.7	2758.9
12.5°	2428.5	2467.6	2496.0	2471.1	2474.7
15°	2067.9	2114.0	2142.5	2110.5	2105.2
17.5°	1685.9	1721.4	1741.0	1721.4	1707.2
20°	1327.0	1348.4	1355.5	1346.6	1334.2
22.5°	980.6	1003.7	1025.0	1003.7	987.7
25°	698.2	721.3	746.1	717.7	701.7
27.5°	470.8	485.0	506.3	479.7	456.6
30°	300.2	316.2	332.2	312.7	287.8
32.5°	190.1	200.7	202.5	199.0	177.7
35°	122.6	127.9	126.1	124.4	111.9
37.5°	78.2	78.2	79.9	78.2	71.1
40°	48.0	51.5	49.7	48.0	44.4
42.5°	28.4	32.0	30.2	30.2	28.4
45°	17.8	21.3	19.5	19.5	19.5
47.5°	12.4	14.2	12.4	12.4	14.2
50°	7.1	8.9	8.9	8.9	8.9
52.5°	5.3	5.3	5.3	5.3	7.1
55°	3.6	3.6	3.6	3.6	5.3
57.5°	3.6	3.6	1.8	1.8	3.6
60°	1.8	1.8	1.8	1.8	1.8
62.5°	1.8	0.0	0.0	0.0	1.8
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)