

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: P225209

Luminaire Tested: **LD2B10D010 EU2B10FL408027 2LBDSQC*MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P225209
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: LD2B10D010 EU2B10FL408027 2LBDSQC*MB
Description: 1000 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: 951.3 lumens
Efficiency: N/A
Efficacy: 92.4 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

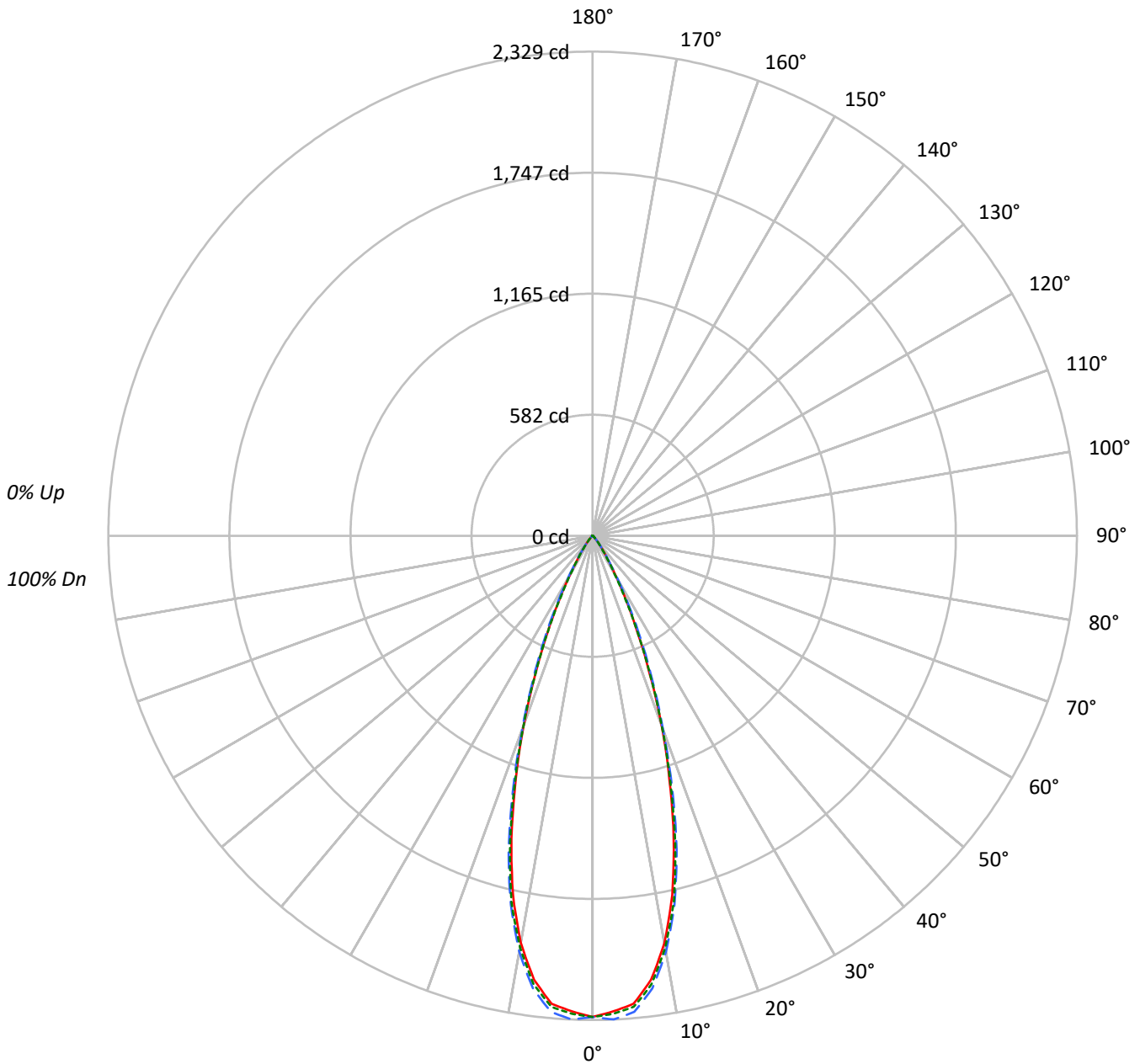
Input Watts (W): 10.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	75	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°	896474	896474	896474
5°	878785	893871	884306
10°	782002	798796	790655
15°	604202	626017	615109
20°	398561	407094	400704
25°	217413	232371	218524
30°	97862	108284	93792
35°	42227	43456	38538
40°	17647	18304	16383
45°	7066	7779	7779
50°	3134	3917	3917
55°	1756	1756	2634
60°	1007	1007	1007
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°	209.2	22.0
10°-20°	416.4	43.8
20°-30°	246.0	25.9
30°-40°	64.0	6.7
40°-50°	12.7	1.3
50°-60°	2.8	0.3
60°-70°	0.2	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°	871.6	91.6
0°-40°	935.6	98.4
0°-60°	951.1	100.0
0°-90°	951.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	951.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2314	2314	2314	2314	2314	
5°	2260	2278	2299	2283	2274	207
15°	1507	1540	1561	1538	1534	409
25°	509	526	544	523	511	240
35°	89	93	92	91	82	62
45°	13	16	14	14	14	12
55°	3	3	3	3	4	3
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2314.4	2314.4	2314.4	2314.4	2314.4
2.5°	2289.8	2313.1	2328.7	2315.7	2301.5
5°	2260.1	2278.2	2298.9	2283.3	2274.3
7.5°	2153.9	2181.1	2196.6	2188.9	2174.6
10°	1988.2	2008.9	2030.9	2023.2	2010.2
12.5°	1769.5	1797.9	1818.7	1800.5	1803.1
15°	1506.7	1540.4	1561.1	1537.8	1533.9
17.5°	1228.4	1254.3	1268.5	1254.3	1243.9
20°	966.9	982.5	987.6	981.2	972.1
22.5°	714.5	731.3	746.9	731.3	719.7
25°	508.7	525.5	543.7	522.9	511.3
27.5°	343.0	353.4	368.9	349.5	332.7
30°	218.8	230.4	242.1	227.8	209.7
32.5°	138.5	146.3	147.6	145.0	129.4
35°	89.3	93.2	91.9	90.6	81.5
37.5°	57.0	57.0	58.2	57.0	51.8
40°	34.9	37.5	36.2	34.9	32.4
42.5°	20.7	23.3	22.0	22.0	20.7
45°	12.9	15.5	14.2	14.2	14.2
47.5°	9.1	10.4	9.1	9.1	10.4
50°	5.2	6.5	6.5	6.5	6.5
52.5°	3.9	3.9	3.9	3.9	5.2
55°	2.6	2.6	2.6	2.6	3.9
57.5°	2.6	2.6	1.3	1.3	2.6
60°	1.3	1.3	1.3	1.3	1.3
62.5°	1.3	0.0	0.0	0.0	1.3
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)