

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: P225181

Luminaire Tested: **LD2B10D010 EU2B10FL409040 2LBDSQC*MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P225181
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 EU2B10FL409040 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: 829.9 lumens
Efficiency: N/A
Efficacy: 80.6 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

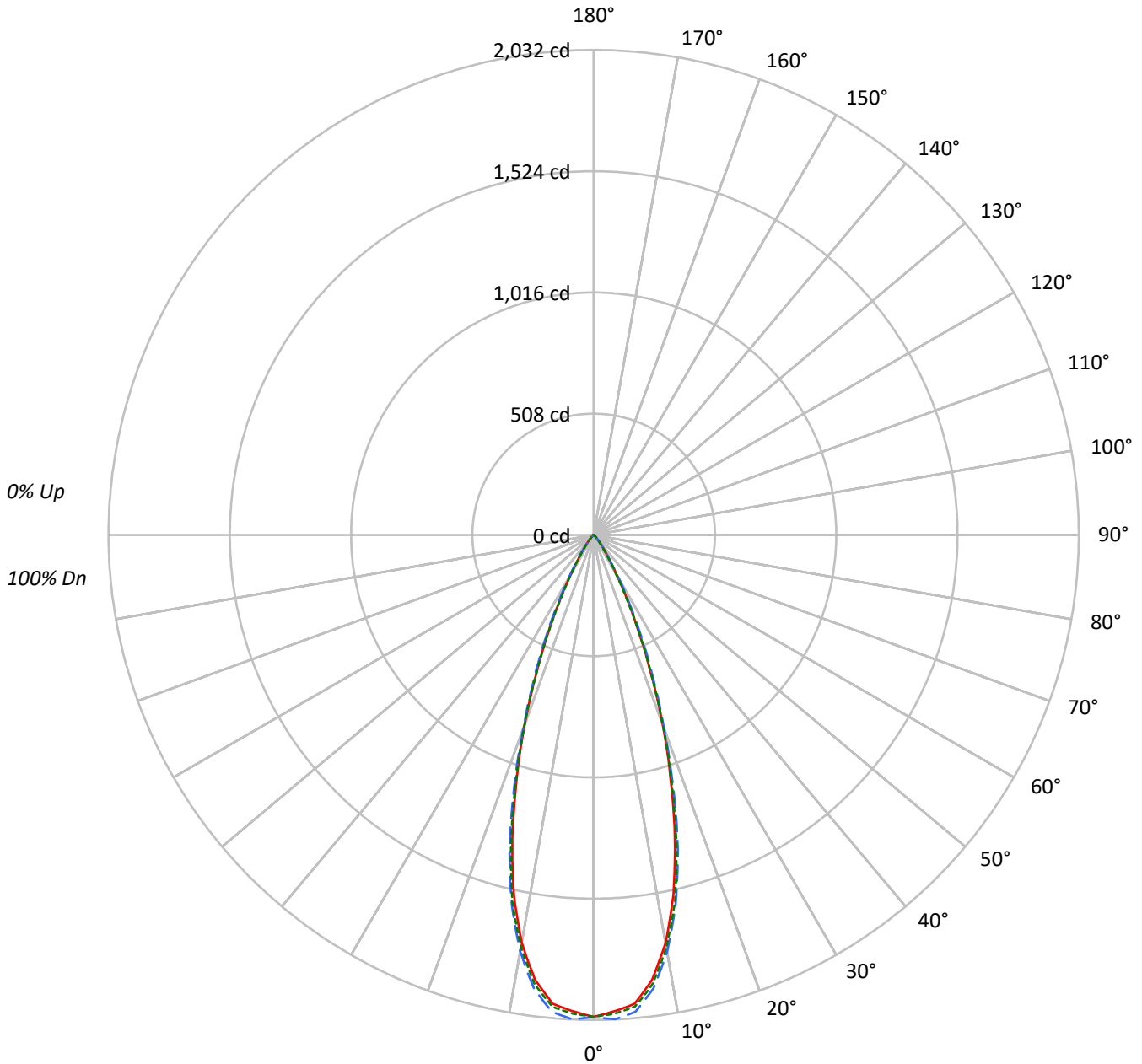
Input Watts (W): 10.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	782090	782090	782090
5°	766609	779790	771469
10°	682216	696887	689768
15°	527088	546136	536592
20°	347695	355156	349591
25°	189675	202711	190615
30°	85339	94463	81805
35°	36836	37924	33620
40°	15422	15978	14259
45°	6190	6793	6793
50°	2712	3375	3375
55°	1553	1553	2296
60°	852	852	852
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°	182.5	22.0
10°-20°	363.3	43.8
20°-30°	214.6	25.9
30°-40°	55.9	6.7
40°-50°	11.0	1.3
50°-60°	2.4	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°	760.4	91.6
0°-40°	816.2	98.4
0°-60°	829.7	100.0
0°-90°	829.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	829.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2019	2019	2019	2019	2019	
5°	1972	1987	2006	1992	1984	180
15°	1314	1344	1362	1342	1338	357
25°	444	458	474	456	446	209
35°	78	81	80	79	71	55
45°	11	14	12	12	12	10
55°	2	2	2	2	3	2
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°	2019.1	2019.1	2019.1	2019.1	2019.1
2.5°	1997.6	2017.9	2031.5	2020.2	2007.8
5°	1971.6	1987.4	2005.5	1992.0	1984.1
7.5°	1879.0	1902.8	1916.3	1909.5	1897.1
10°	1734.5	1752.6	1771.8	1765.0	1753.7
12.5°	1543.7	1568.5	1586.6	1570.8	1573.0
15°	1314.4	1343.8	1361.9	1341.5	1338.1
17.5°	1071.6	1094.2	1106.6	1094.2	1085.2
20°	843.5	857.1	861.6	856.0	848.1
22.5°	623.3	638.0	651.6	638.0	627.9
25°	443.8	458.5	474.3	456.2	446.0
27.5°	299.2	308.3	321.8	304.9	290.2
30°	190.8	201.0	211.2	198.7	182.9
32.5°	120.8	127.6	128.7	126.5	112.9
35°	77.9	81.3	80.2	79.0	71.1
37.5°	49.7	49.7	50.8	49.7	45.2
40°	30.5	32.7	31.6	30.5	28.2
42.5°	18.1	20.3	19.2	19.2	18.1
45°	11.3	13.6	12.4	12.4	12.4
47.5°	7.9	9.0	7.9	7.9	9.0
50°	4.5	5.6	5.6	5.6	5.6
52.5°	3.4	3.4	3.4	3.4	4.5
55°	2.3	2.3	2.3	2.3	3.4
57.5°	2.3	2.3	1.1	1.1	2.3
60°	1.1	1.1	1.1	1.1	1.1
62.5°	1.1	0.0	0.0	0.0	1.1
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)