

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: P283580

Luminaire Tested: **LDA2B109027D010 EU2B10FL409027 2LBAPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283580
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-15)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B109027D010 EU2B10FL409027 2LBAPINSQ1MW
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ PinHole, MW

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 736.1 lumens
Efficiency: N/A
Efficacy: 73.6 lumens/watt
Spacing Criteria (0/90/45): 0.55 / 0.55 / 0.55
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

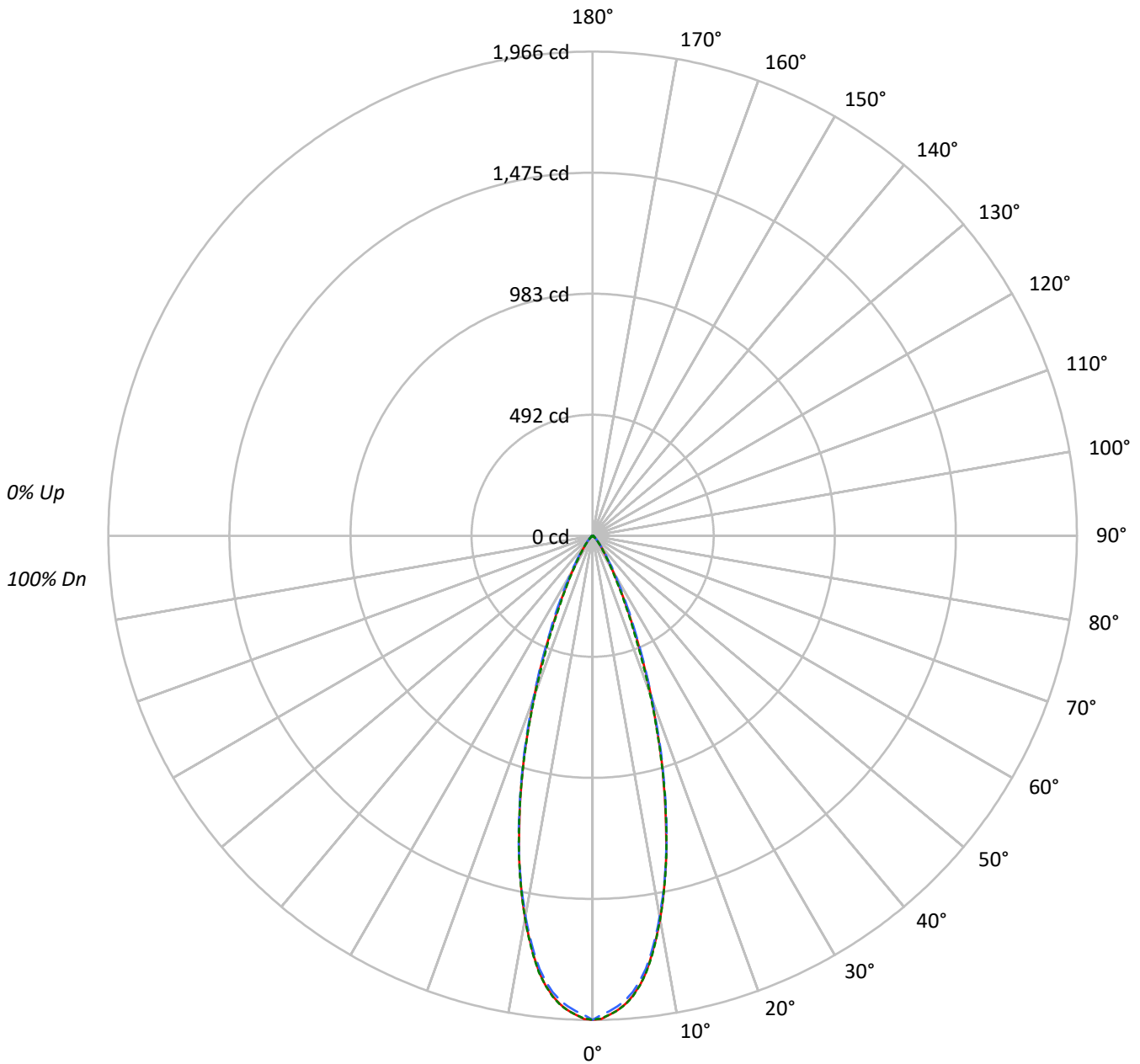
Input Watts (W): 10
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	969851	969851	969851
5°	928141	921158	929577
10°	790735	785776	791537
15°	582835	586614	584725
20°	363842	370562	355809
25°	187915	201633	178497
30°	90124	103284	85852
35°	46496	51495	43545
40°	26084	27372	24731
45°	15838	15838	15280
50°	8213	10131	8213
55°	4301	6709	4645
60°	4934	4934	4934
65°	5253	5253	5253
70°	6491	5914	6491
75°	6290	6290	6290
80°	5966	5966	5966
85°	4529	4529	4529



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.1	23.0
10°-20°	310.6	42.2
20°-30°	168.4	22.9
30°-40°	54.0	7.3
40°-50°	18.4	2.5
50°-60°	6.5	0.9
60°-70°	4.7	0.6
70°-80°	3.4	0.5
80°-90°	1.0	0.1
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°	648.0	88.0
0°-40°	702.1	95.4
0°-60°	727.0	98.8
0°-90°	736.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	736.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1966	1966	1966	1966	1966	
5°	1874	1862	1860	1879	1877	169
15°	1141	1151	1148	1154	1145	309
25°	345	361	370	345	328	165
35°	77	80	86	78	72	52
45°	23	23	23	23	22	18
55°	5	6	8	6	5	5
65°	4	5	4	5	4	5
75°	3	3	3	3	3	3
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1965.8	1965.8	1965.8	1965.8	1965.8
1°	1962.5	1948.4	1946.4	1964.5	1960.4
2°	1946.8	1933.6	1931.5	1949.7	1945.9
3°	1929.4	1917.4	1913.3	1932.3	1929.8
4°	1906.3	1895.1	1891.4	1910.4	1908.4
5°	1874.1	1862.5	1860.0	1878.6	1877.0
6°	1834.4	1824.9	1820.4	1839.0	1835.7
7°	1784.9	1776.2	1771.3	1784.9	1786.5
8°	1720.5	1716.3	1710.5	1724.2	1724.2
9°	1651.9	1648.2	1642.0	1654.4	1654.4
10°	1578.4	1575.9	1568.5	1580.0	1580.0
11°	1497.9	1496.6	1491.3	1500.8	1500.8
12°	1413.2	1416.1	1411.1	1419.4	1416.5
13°	1328.5	1327.3	1327.7	1333.9	1329.4
14°	1232.7	1240.2	1241.4	1245.1	1238.1
15°	1141.1	1150.6	1148.5	1153.9	1144.8
16°	1047.3	1058.0	1057.6	1058.9	1050.2
17°	959.8	966.0	966.4	965.1	954.4
18°	866.4	875.1	875.1	873.0	860.2
19°	775.2	781.8	786.3	781.8	766.9
20°	693.0	697.5	705.8	694.2	677.7
21°	614.1	618.2	625.2	611.6	593.4
22°	538.5	543.9	550.5	534.8	515.8
23°	467.9	480.3	482.8	461.3	445.2
24°	403.1	417.1	421.2	399.3	382.4
25°	345.2	360.9	370.4	344.8	327.9
26°	295.3	310.6	322.1	296.5	280.4
27°	251.5	267.6	279.6	255.6	240.4
28°	213.9	229.6	242.0	219.7	205.2
29°	185.8	194.9	207.3	188.7	175.5
30°	158.2	168.1	181.3	162.3	150.7
32.5°	108.6	114.0	124.3	112.7	103.7
35°	77.2	80.5	85.5	77.6	72.3
37.5°	54.9	56.6	59.5	54.9	52.0
40°	40.5	41.3	42.5	40.1	38.4
42.5°	30.1	30.6	30.6	29.7	28.9
45°	22.7	23.1	22.7	22.7	21.9
47.5°	16.5	17.8	17.3	17.3	16.1
50°	10.7	13.2	13.2	12.8	10.7
52.5°	6.6	9.1	10.3	9.1	7.0
55°	5.0	6.2	7.8	6.2	5.4
57.5°	5.0	5.0	5.8	5.0	5.0
60°	5.0	5.0	5.0	5.0	5.0



TEST NUMBER: P283580

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	4.5	4.5	4.5	4.5	4.5
70°	4.5	4.5	4.1	4.5	4.5
72.5°	4.1	4.1	3.7	4.1	3.7
75°	3.3	3.3	3.3	3.3	3.3
77.5°	2.5	2.5	2.5	2.5	2.5
80°	2.1	2.1	2.1	2.1	2.1
82.5°	1.2	1.2	1.2	1.7	1.2
85°	0.8	0.8	0.8	0.8	0.8
87.5°	0.4	0.4	0.4	0.4	0.4
90°	0.0	0.0	0.0	0.0	0.0



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







62.5°	5.0	5.0	5.0	5.0	5.0
65°	4.5	5.0	4.5	5.0	4.5



(END OF REPORT)