

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: P283579

Luminaire Tested: **LDA2B109024D010 EU2B10FL409024 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283579
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: LDA2B109024D010 EU2B10FL409024 2LBALPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MMS

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 630.6 lumens
Efficiency: N/A
Efficacy: 63.1 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

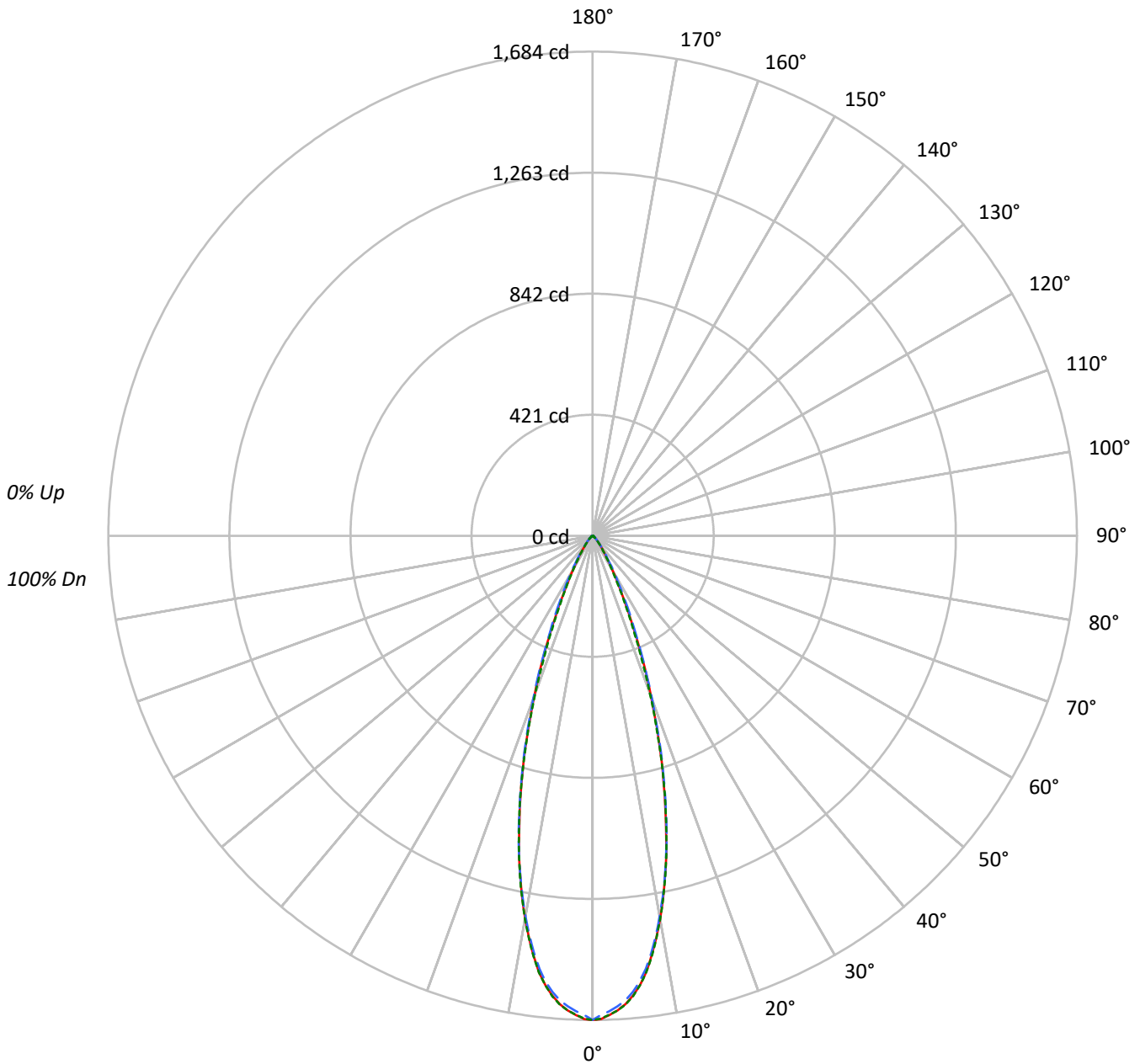
Input Watts (W): 10
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	830871	830871	830871
5°	795168	789225	796406
10°	677465	673207	678167
15°	499325	502542	500959
20°	311707	317482	304829
25°	161023	172781	152912
30°	77192	88472	73546
35°	39871	44087	37281
40°	22348	23443	21189
45°	13606	13606	13117
50°	7061	8673	7061
55°	3613	5763	3957
60°	4144	4144	4144
65°	4553	4553	4553
70°	5626	5049	5626
75°	5337	5337	5337
80°	5114	5114	5114
85°	3962	3962	3962



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.9	23.0
10°-20°	266.1	42.2
20°-30°	144.3	22.9
30°-40°	46.3	7.3
40°-50°	15.8	2.5
50°-60°	5.5	0.9
60°-70°	4.0	0.6
70°-80°	2.9	0.5
80°-90°	0.9	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°	555.2	88.0
0°-40°	601.5	95.4
0°-60°	622.8	98.8
0°-90°	630.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	630.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1684	1684	1684	1684	1684	
5°	1606	1596	1594	1610	1608	145
15°	978	986	984	988	981	265
25°	296	309	317	295	281	142
35°	66	69	73	66	62	45
45°	20	20	20	20	19	16
55°	4	5	7	5	5	5
65°	4	4	4	4	4	4
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°	1684.1	1684.1	1684.1	1684.1	1684.1
1°	1681.3	1669.3	1667.5	1683.1	1679.5
2°	1667.9	1656.5	1654.8	1670.3	1667.1
3°	1653.0	1642.7	1639.2	1655.5	1653.4
4°	1633.2	1623.6	1620.4	1636.7	1635.0
5°	1605.6	1595.7	1593.6	1609.5	1608.1
6°	1571.6	1563.5	1559.6	1575.5	1572.7
7°	1529.2	1521.7	1517.5	1529.2	1530.6
8°	1474.0	1470.4	1465.5	1477.2	1477.2
9°	1415.2	1412.1	1406.7	1417.4	1417.4
10°	1352.3	1350.1	1343.8	1353.7	1353.7
11°	1283.3	1282.2	1277.6	1285.7	1285.7
12°	1210.7	1213.2	1209.0	1216.0	1213.6
13°	1138.2	1137.1	1137.5	1142.8	1138.9
14°	1056.1	1062.5	1063.6	1066.7	1060.7
15°	977.6	985.7	983.9	988.5	980.8
16°	897.3	906.5	906.1	907.2	899.7
17°	822.3	827.6	827.9	826.9	817.7
18°	742.3	749.7	749.7	748.0	737.0
19°	664.1	669.8	673.7	669.8	657.0
20°	593.7	597.6	604.7	594.8	580.6
21°	526.1	529.7	535.7	524.0	508.4
22°	461.4	466.0	471.6	458.2	441.9
23°	400.9	411.5	413.6	395.2	381.4
24°	345.3	357.3	360.9	342.1	327.6
25°	295.8	309.2	317.4	295.4	280.9
26°	253.0	266.1	276.0	254.0	240.2
27°	215.5	229.3	239.5	219.0	205.9
28°	183.3	196.7	207.3	188.2	175.8
29°	159.2	167.0	177.6	161.7	150.4
30°	135.5	144.0	155.3	139.0	129.1
32.5°	93.1	97.7	106.5	96.6	88.8
35°	66.2	69.0	73.2	66.5	61.9
37.5°	47.1	48.5	50.9	47.1	44.6
40°	34.7	35.4	36.4	34.3	32.9
42.5°	25.8	26.2	26.2	25.5	24.8
45°	19.5	19.8	19.5	19.5	18.8
47.5°	14.2	15.2	14.9	14.9	13.8
50°	9.2	11.3	11.3	11.0	9.2
52.5°	5.7	7.8	8.8	7.8	6.0
55°	4.2	5.3	6.7	5.3	4.6
57.5°	4.2	4.2	5.0	4.2	4.2
60°	4.2	4.2	4.2	4.2	4.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	3.9	3.9	3.9	3.9	3.9
70°	3.9	3.9	3.5	3.9	3.9
72.5°	3.5	3.5	3.2	3.5	3.2
75°	2.8	2.8	2.8	2.8	2.8
77.5°	2.1	2.1	2.1	2.1	2.1
80°	1.8	1.8	1.8	1.8	1.8
82.5°	1.1	1.1	1.1	1.4	1.1
85°	0.7	0.7	0.7	0.7	0.7
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°	4.2	4.2	4.2	4.2	4.2
65°	3.9	4.2	3.9	4.2	3.9



(END OF REPORT)