

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: P283603

Luminaire Tested: **LDA2B109040D010 EU2B10FL409040 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283603
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: LDA2B109040D010 EU2B10FL409040 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: 751.6 lumens
Efficiency: N/A
Efficacy: 75.2 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

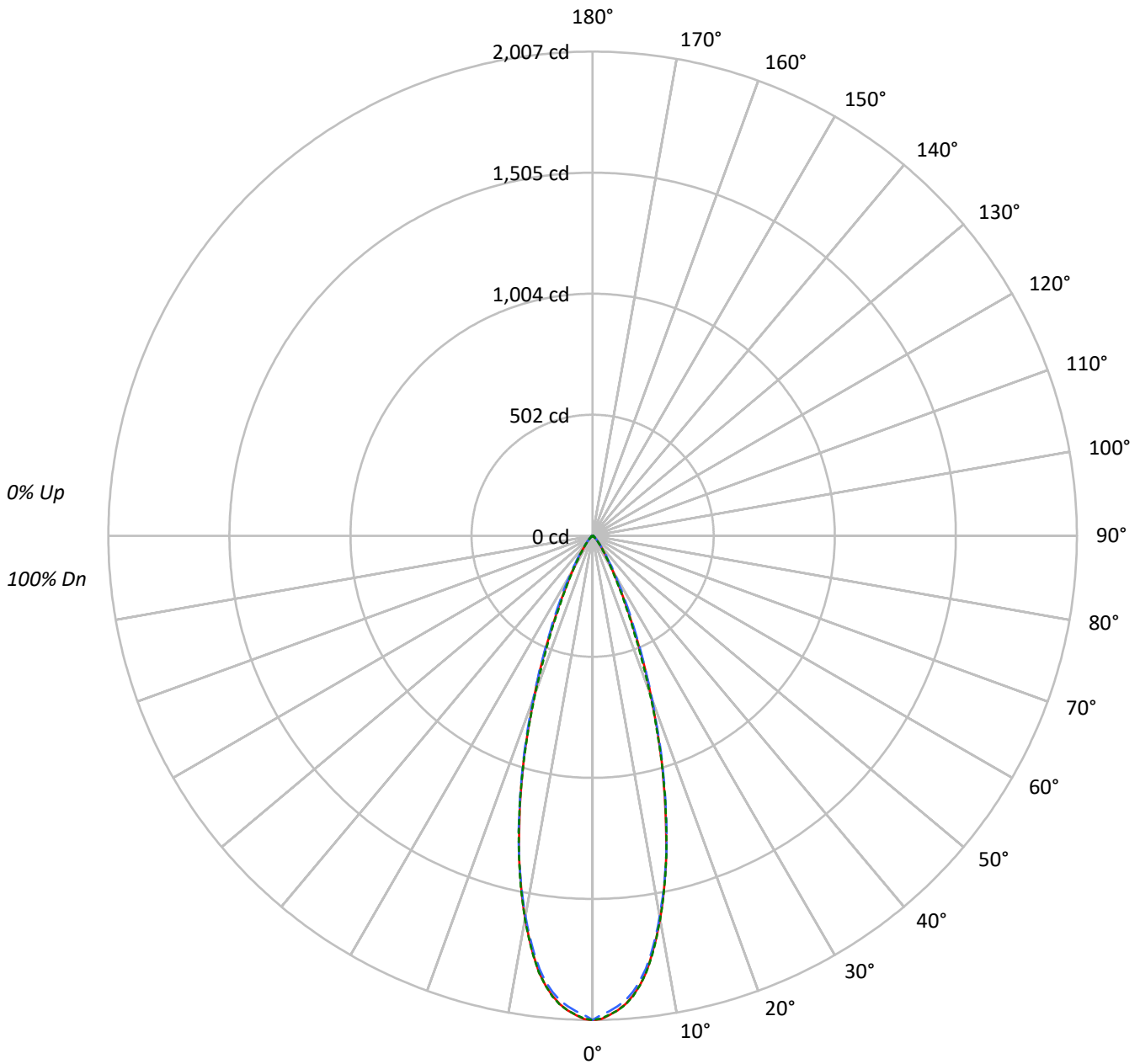
Input Watts (W): 10
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	990276	990276	990276
5°	947703	940621	949189
10°	807418	802358	808269
15°	595093	598975	597034
20°	371507	378385	363317
25°	191888	205933	182253
30°	92004	105449	87675
35°	47520	52579	44449
40°	26599	27951	25246
45°	16187	16187	15559
50°	8443	10362	8443
55°	4387	6881	4731
60°	5032	5032	5032
65°	5370	5370	5370
70°	6635	6058	6635
75°	6481	6481	6481
80°	5966	5966	5966
85°	4529	4529	4529



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.7	23.0
10°-20°	317.1	42.2
20°-30°	171.9	22.9
30°-40°	55.2	7.3
40°-50°	18.8	2.5
50°-60°	6.6	0.9
60°-70°	4.8	0.6
70°-80°	3.5	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°	661.7	88.0
0°-40°	716.9	95.4
0°-60°	742.3	98.8
0°-90°	751.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	751.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2007	2007	2007	2007	2007	
5°	1914	1902	1899	1918	1917	173
15°	1165	1175	1173	1178	1169	316
25°	352	369	378	352	335	169
35°	79	82	87	79	74	53
45°	23	24	23	23	22	18
55°	5	6	8	6	6	6
65°	5	5	5	5	5	5
75°	3	3	3	3	3	4
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°	2007.2	2007.2	2007.2	2007.2	2007.2
1°	2003.9	1989.5	1987.4	2006.0	2001.8
2°	1987.8	1974.4	1972.2	1990.8	1987.0
3°	1970.1	1957.9	1953.7	1973.1	1970.6
4°	1946.5	1935.1	1931.3	1950.7	1948.6
5°	1913.6	1901.8	1899.3	1918.3	1916.6
6°	1873.1	1863.5	1858.8	1877.8	1874.4
7°	1822.5	1813.7	1808.6	1822.5	1824.2
8°	1756.8	1752.5	1746.6	1760.6	1760.6
9°	1686.8	1683.0	1676.6	1689.3	1689.3
10°	1611.7	1609.2	1601.6	1613.4	1613.4
11°	1529.5	1528.2	1522.7	1532.4	1532.4
12°	1443.0	1446.0	1440.9	1449.4	1446.4
13°	1356.6	1355.3	1355.7	1362.1	1357.4
14°	1258.7	1266.3	1267.6	1271.4	1264.2
15°	1165.1	1174.8	1172.7	1178.2	1168.9
16°	1069.4	1080.4	1079.9	1081.2	1072.4
17°	980.0	986.3	986.8	985.5	974.5
18°	884.7	893.6	893.6	891.5	878.4
19°	791.5	798.3	802.9	798.3	783.1
20°	707.6	712.2	720.7	708.9	692.0
21°	627.1	631.3	638.4	624.5	606.0
22°	549.9	555.4	562.1	546.1	526.7
23°	477.8	490.4	493.0	471.0	454.6
24°	411.6	425.9	430.1	407.8	390.5
25°	352.5	368.6	378.3	352.1	334.8
26°	301.5	317.1	328.9	302.8	286.3
27°	256.8	273.3	285.5	261.0	245.4
28°	218.4	234.5	247.1	224.3	209.6
29°	189.8	199.0	211.7	192.7	179.2
30°	161.5	171.6	185.1	165.7	153.9
32.5°	110.9	116.4	126.9	115.1	105.8
35°	78.9	82.2	87.3	79.3	73.8
37.5°	56.1	57.8	60.7	56.1	53.1
40°	41.3	42.2	43.4	40.9	39.2
42.5°	30.8	31.2	31.2	30.4	29.5
45°	23.2	23.6	23.2	23.2	22.3
47.5°	16.9	18.1	17.7	17.7	16.4
50°	11.0	13.5	13.5	13.1	11.0
52.5°	6.7	9.3	10.5	9.3	7.2
55°	5.1	6.3	8.0	6.3	5.5
57.5°	5.1	5.1	5.9	5.1	5.1
60°	5.1	5.1	5.1	5.1	5.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	4.6	4.6	4.6	4.6	4.6
70°	4.6	4.6	4.2	4.6	4.6
72.5°	4.2	4.2	3.8	4.2	3.8
75°	3.4	3.4	3.4	3.4	3.4
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°	1.3	1.3	1.3	1.7	1.3
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°	5.1	5.1	5.1	5.1	5.1
65°	4.6	5.1	4.6	5.1	4.6



(END OF REPORT)