

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: P283597

Luminaire Tested: **LDA2B109035D010 EU2B10FL409035 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283597
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: LDA2B109035D010 EU2B10FL409035 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: 736.0 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

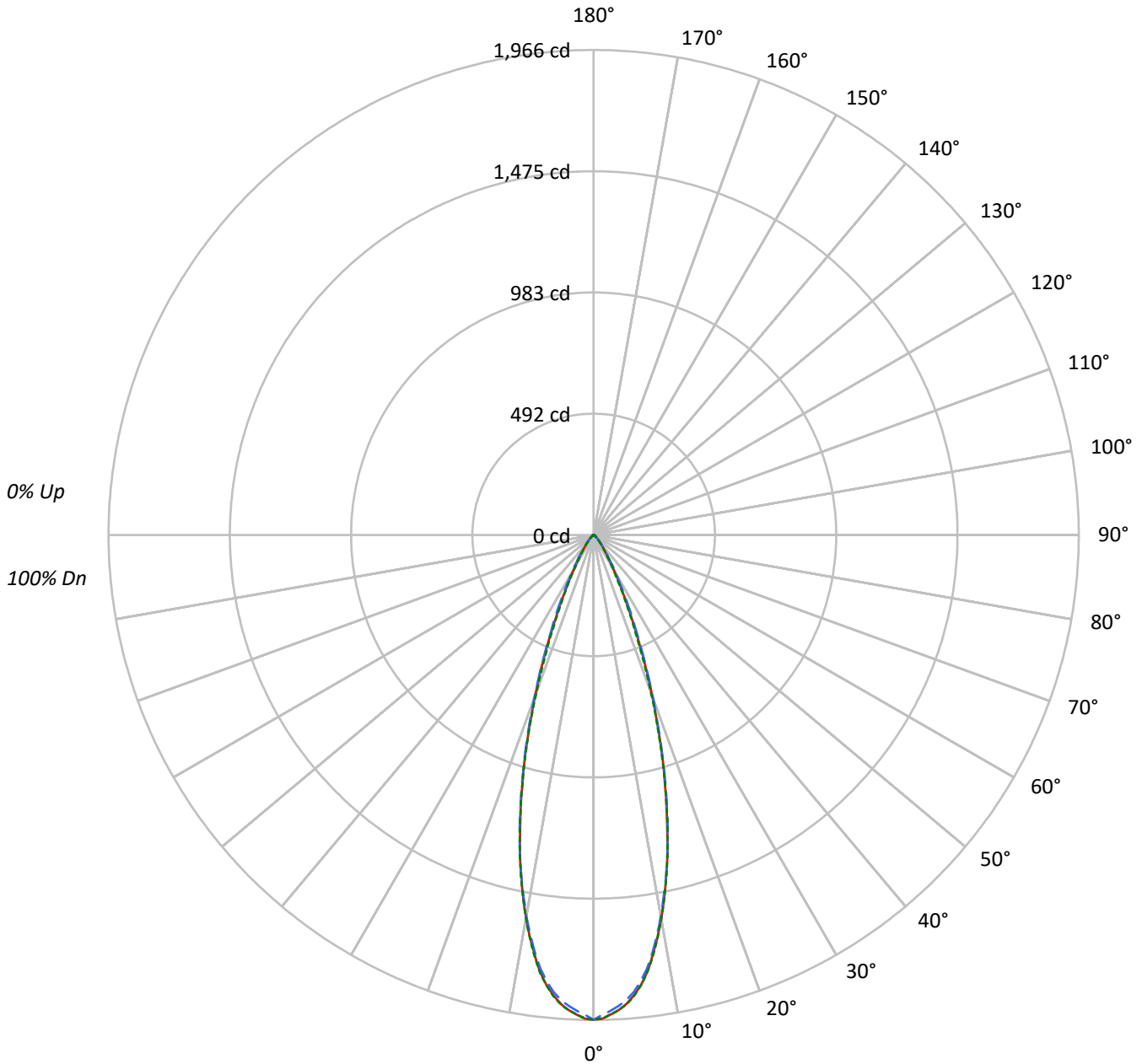
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	969703	969703	969703
5°	927993	921059	929429
10°	790585	785625	791437
15°	582733	586512	584622
20°	363790	370510	355757
25°	187915	201633	178497
30°	90067	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°	310.5	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°	647.9	88.0
0°-40°	702.0	95.4
0°-60°	726.9	98.8
0°-90°	736.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	736.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1966	1966	1966	1966	1966	
5°	1874	1862	1860	1878	1877	169
15°	1141	1150	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°	1965.5	1965.5	1965.5	1965.5	1965.5
1°	1962.2	1948.1	1946.1	1964.2	1960.1
2°	1946.5	1933.3	1931.2	1949.4	1945.6
3°	1929.1	1917.2	1913.0	1932.0	1929.5
4°	1906.0	1894.9	1891.1	1910.1	1908.1
5°	1873.8	1862.2	1859.8	1878.3	1876.7
6°	1834.2	1824.7	1820.1	1838.7	1835.4
7°	1784.6	1775.9	1771.0	1784.6	1786.3
8°	1720.2	1716.1	1710.3	1723.9	1723.9
9°	1651.6	1647.9	1641.7	1654.1	1654.1
10°	1578.1	1575.7	1568.2	1579.8	1579.8
11°	1497.6	1496.4	1491.0	1500.5	1500.5
12°	1413.0	1415.9	1410.9	1419.2	1416.3
13°	1328.3	1327.1	1327.5	1333.7	1329.2
14°	1232.5	1240.0	1241.2	1244.9	1237.9
15°	1140.9	1150.4	1148.3	1153.7	1144.6
16°	1047.1	1057.9	1057.5	1058.7	1050.0
17°	959.6	965.8	966.2	965.0	954.2
18°	866.3	875.0	875.0	872.9	860.1
19°	775.0	781.6	786.2	781.6	766.8
20°	692.9	697.4	705.7	694.1	677.6
21°	614.0	618.1	625.1	611.5	593.4
22°	538.4	543.8	550.4	534.7	515.7
23°	467.8	480.2	482.7	461.2	445.1
24°	403.0	417.0	421.2	399.3	382.4
25°	345.2	360.9	370.4	344.8	327.9
26°	295.2	310.5	322.1	296.5	280.4
27°	251.5	267.6	279.5	255.6	240.3
28°	213.9	229.6	242.0	219.7	205.2
29°	185.8	194.9	207.3	188.7	175.5
30°	158.1	168.1	181.3	162.3	150.7
32.5°	108.6	114.0	124.3	112.7	103.6
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



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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)