

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: P283778

Luminaire Tested: **LDA2B209727D010 EU2B20FL409727 2LBAPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283778
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: LDA2B209727D010 EU2B20FL409727 2LBAPINSQ1MW
Description: PORTFOLIO 2IN ADJ 2000 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ PinHole, MW

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1226.1 lumens
Efficiency: N/A
Efficacy: 59.5 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

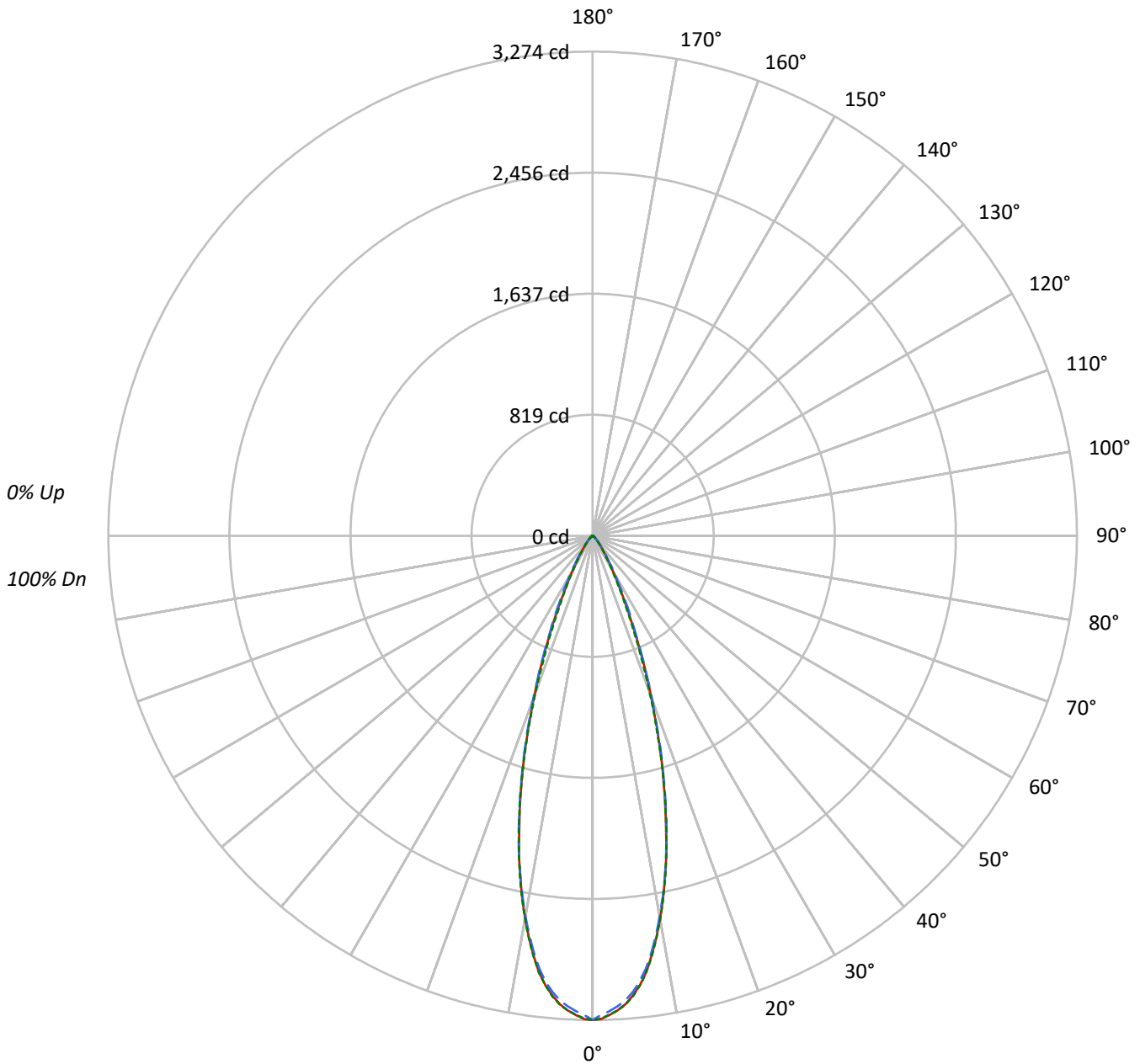
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1615365	1615365	1615365
5°	1545911	1534323	1548289
10°	1317057	1308791	1318410
15°	970761	977044	973877
20°	605983	617219	592648
25°	313064	335873	297332
30°	150112	172045	143048
35°	77454	85765	72515
40°	43408	45598	41218
45°	26374	26374	25467
50°	13739	16886	13739
55°	7139	11268	7655
60°	8190	8190	8190
65°	8872	8872	8872
70°	10963	9953	10963
75°	10484	10484	10484
80°	9660	9660	9660
85°	7925	7925	7925



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	281.6	23.0
10°-20°	517.3	42.2
20°-30°	280.5	22.9
30°-40°	90.0	7.3
40°-50°	30.7	2.5
50°-60°	10.8	0.9
60°-70°	7.9	0.6
70°-80°	5.7	0.5
80°-90°	1.7	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°	1079.4	88.0
0°-40°	1169.4	95.4
0°-60°	1210.9	98.8
0°-90°	1226.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1226.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3274	3274	3274	3274	3274	
5°	3122	3102	3098	3129	3126	282
15°	1901	1916	1913	1922	1907	515
25°	575	601	617	574	546	276
35°	129	134	142	129	120	87
45°	38	38	38	38	36	30
55°	8	10	13	10	9	9
65°	8	8	8	8	8	8
75°	6	6	6	6	6	6
85°	1	1	1	1	1	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3274.2	3274.2	3274.2	3274.2	3274.2
1°	3268.7	3245.3	3241.9	3272.1	3265.3
2°	3242.6	3220.6	3217.1	3247.4	3241.2
3°	3213.7	3193.7	3186.9	3218.5	3214.4
4°	3175.2	3156.6	3150.4	3182.0	3178.6
5°	3121.5	3102.2	3098.1	3129.1	3126.3
6°	3055.5	3039.6	3032.1	3063.0	3057.5
7°	2972.9	2958.5	2950.2	2972.9	2975.7
8°	2865.6	2858.7	2849.1	2871.8	2871.8
9°	2751.4	2745.2	2734.9	2755.6	2755.6
10°	2629.0	2624.9	2612.5	2631.7	2631.7
11°	2494.9	2492.8	2483.9	2499.7	2499.7
12°	2353.9	2358.7	2350.4	2364.2	2359.4
13°	2212.8	2210.8	2211.5	2221.8	2214.2
14°	2053.3	2065.6	2067.7	2073.9	2062.2
15°	1900.6	1916.4	1912.9	1921.9	1906.7
16°	1744.4	1762.3	1761.6	1763.7	1749.2
17°	1598.6	1608.9	1609.6	1607.5	1589.6
18°	1443.1	1457.6	1457.6	1454.1	1432.8
19°	1291.1	1302.1	1309.7	1302.1	1277.4
20°	1154.2	1161.8	1175.6	1156.3	1128.8
21°	1022.8	1029.7	1041.4	1018.7	988.5
22°	897.0	905.9	916.9	890.8	859.1
23°	779.3	800.0	804.1	768.3	741.5
24°	671.4	694.7	701.6	665.2	637.0
25°	575.1	601.2	617.0	574.4	546.2
26°	491.8	517.3	536.5	493.9	467.1
27°	418.9	445.7	465.7	425.8	400.3
28°	356.3	382.4	403.1	365.9	341.9
29°	309.5	324.7	345.3	314.4	292.3
30°	263.5	280.0	302.0	270.3	251.1
32.5°	180.9	189.8	207.0	187.8	172.7
35°	128.6	134.1	142.4	129.3	120.4
37.5°	91.5	94.2	99.1	91.5	86.7
40°	67.4	68.8	70.8	66.7	64.0
42.5°	50.2	50.9	50.9	49.5	48.2
45°	37.8	38.5	37.8	37.8	36.5
47.5°	27.5	29.6	28.9	28.9	26.8
50°	17.9	22.0	22.0	21.3	17.9
52.5°	11.0	15.1	17.2	15.1	11.7
55°	8.3	10.3	13.1	10.3	8.9
57.5°	8.3	8.3	9.6	8.3	8.3
60°	8.3	8.3	8.3	8.3	8.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	7.6	7.6	7.6	7.6	7.6
70°	7.6	7.6	6.9	7.6	7.6
72.5°	6.9	6.9	6.2	6.9	6.2
75°	5.5	5.5	5.5	5.5	5.5
77.5°	4.1	4.1	4.1	4.1	4.1
80°	3.4	3.4	3.4	3.4	3.4
82.5°	2.1	2.1	2.1	2.8	2.1
85°	1.4	1.4	1.4	1.4	1.4
87.5°	0.7	0.7	0.7	0.7	0.7
90°	0.0	0.0	0.0	0.0	0.0



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







62.5°	8.3	8.3	8.3	8.3	8.3
65°	7.6	8.3	7.6	8.3	7.6



(END OF REPORT)