

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: P283774

Luminaire Tested: **LDA2B209050D010 EU2B20FL409050 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283774
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: LDA2B209050D010 EU2B20FL409050 2LBAPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 2000 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ PinHole, MMS

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1531.1 lumens
Efficiency: N/A
Efficacy: 74.3 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

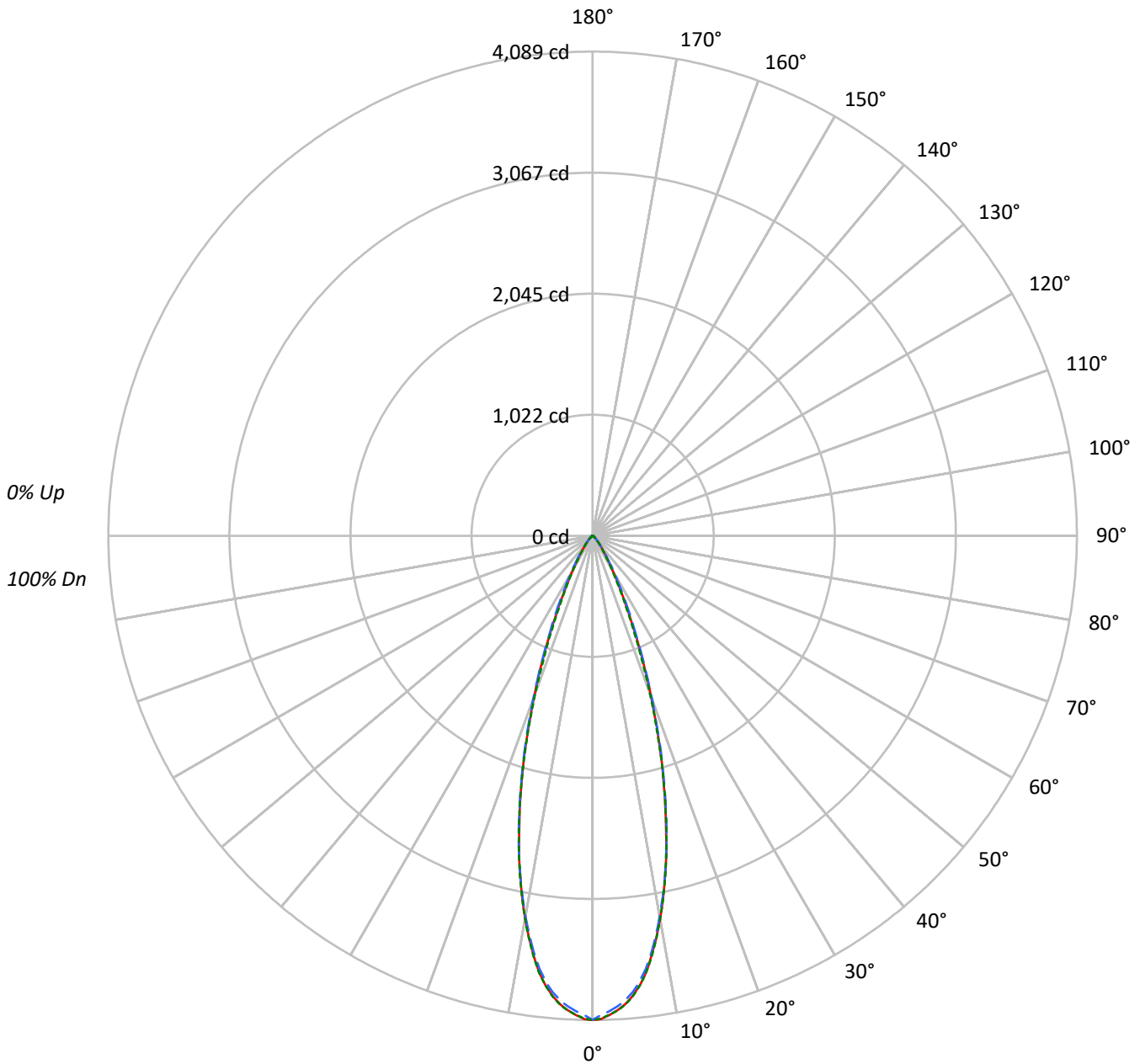
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2017307	2017307	2017307
5°	1930569	1916108	1933541
10°	1644743	1634423	1646497
15°	1212251	1220168	1216235
20°	756771	770736	740075
25°	390908	419433	371311
30°	187426	214828	178596
35°	96727	107086	90523
40°	54228	56997	51459
45°	32932	32932	31746
50°	17116	21107	17116
55°	8860	14020	9634
60°	10163	10163	10163
65°	10973	10973	10973
70°	13559	12405	13559
75°	13153	13153	13153
80°	12217	12217	12217
85°	9623	9623	9623



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	351.7	23.0
10°-20°	646.0	42.2
20°-30°	350.2	22.9
30°-40°	112.4	7.3
40°-50°	38.3	2.5
50°-60°	13.4	0.9
60°-70°	9.7	0.6
70°-80°	7.1	0.5
80°-90°	2.1	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°	1348.0	88.0
0°-40°	1460.4	95.4
0°-60°	1512.1	98.8
0°-90°	1531.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1531.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4089	4089	4089	4089	4089	
5°	3898	3874	3869	3908	3904	353
15°	2373	2393	2389	2400	2381	643
25°	718	751	770	717	682	344
35°	161	168	178	162	150	108
45°	47	48	47	47	46	38
55°	10	13	16	13	11	11
65°	9	10	9	10	9	10
75°	7	7	7	7	7	7
85°	2	2	2	2	2	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4088.9	4088.9	4088.9	4088.9	4088.9
1°	4082.0	4052.8	4048.5	4086.3	4077.7
2°	4049.4	4021.9	4017.6	4055.4	4047.6
3°	4013.3	3988.4	3979.8	4019.3	4014.1
4°	3965.2	3942.0	3934.2	3973.8	3969.5
5°	3898.2	3874.1	3869.0	3907.6	3904.2
6°	3815.7	3795.9	3786.5	3825.2	3818.3
7°	3712.6	3694.6	3684.3	3712.6	3716.1
8°	3578.6	3570.0	3558.0	3586.3	3586.3
9°	3436.0	3428.3	3415.4	3441.2	3441.2
10°	3283.1	3278.0	3262.5	3286.6	3286.6
11°	3115.6	3113.0	3101.9	3121.6	3121.6
12°	2939.5	2945.5	2935.2	2952.4	2946.4
13°	2763.4	2760.8	2761.7	2774.6	2765.1
14°	2564.1	2579.6	2582.2	2589.9	2575.3
15°	2373.4	2393.2	2388.9	2400.1	2381.2
16°	2178.4	2200.8	2199.9	2202.5	2184.5
17°	1996.3	2009.2	2010.1	2007.5	1985.2
18°	1802.2	1820.2	1820.2	1815.9	1789.3
19°	1612.4	1626.1	1635.5	1626.1	1595.2
20°	1441.4	1450.9	1468.0	1444.0	1409.6
21°	1277.3	1285.9	1300.5	1272.2	1234.4
22°	1120.1	1131.3	1145.1	1112.4	1072.9
23°	973.3	999.0	1004.2	959.5	926.0
24°	838.4	867.6	876.2	830.7	795.4
25°	718.1	750.8	770.5	717.3	682.1
26°	614.2	646.0	670.0	616.8	583.3
27°	523.1	556.6	581.5	531.7	499.9
28°	445.0	477.6	503.4	457.0	426.9
29°	386.6	405.5	431.2	392.6	365.1
30°	329.0	349.6	377.1	337.6	313.5
32.5°	225.9	237.1	258.6	234.5	215.6
35°	160.6	167.5	177.8	161.5	150.3
37.5°	114.2	117.7	123.7	114.2	108.2
40°	84.2	85.9	88.5	83.3	79.9
42.5°	62.7	63.6	63.6	61.8	60.1
45°	47.2	48.1	47.2	47.2	45.5
47.5°	34.4	36.9	36.1	36.1	33.5
50°	22.3	27.5	27.5	26.6	22.3
52.5°	13.7	18.9	21.5	18.9	14.6
55°	10.3	12.9	16.3	12.9	11.2
57.5°	10.3	10.3	12.0	10.3	10.3
60°	10.3	10.3	10.3	10.3	10.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	9.4	9.4	9.4	9.4	9.4
70°	9.4	9.4	8.6	9.4	9.4
72.5°	8.6	8.6	7.7	8.6	7.7
75°	6.9	6.9	6.9	6.9	6.9
77.5°	5.2	5.2	5.2	5.2	5.2
80°	4.3	4.3	4.3	4.3	4.3
82.5°	2.6	2.6	2.6	3.4	2.6
85°	1.7	1.7	1.7	1.7	1.7
87.5°	0.9	0.9	0.9	0.9	0.9
90°	0.0	0.0	0.0	0.0	0.0



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







62.5°	10.3	10.3	10.3	10.3	10.3
65°	9.4	10.3	9.4	10.3	9.4



(END OF REPORT)