

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: P283588

Luminaire Tested: **LDA2B109030D010 EU2B10FL409030 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283588
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: LDA2B109030D010 EU2B10FL409030 2LBAPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ PinHole, MMS

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 759.4 lumens
Efficiency: N/A
Efficacy: 75.9 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

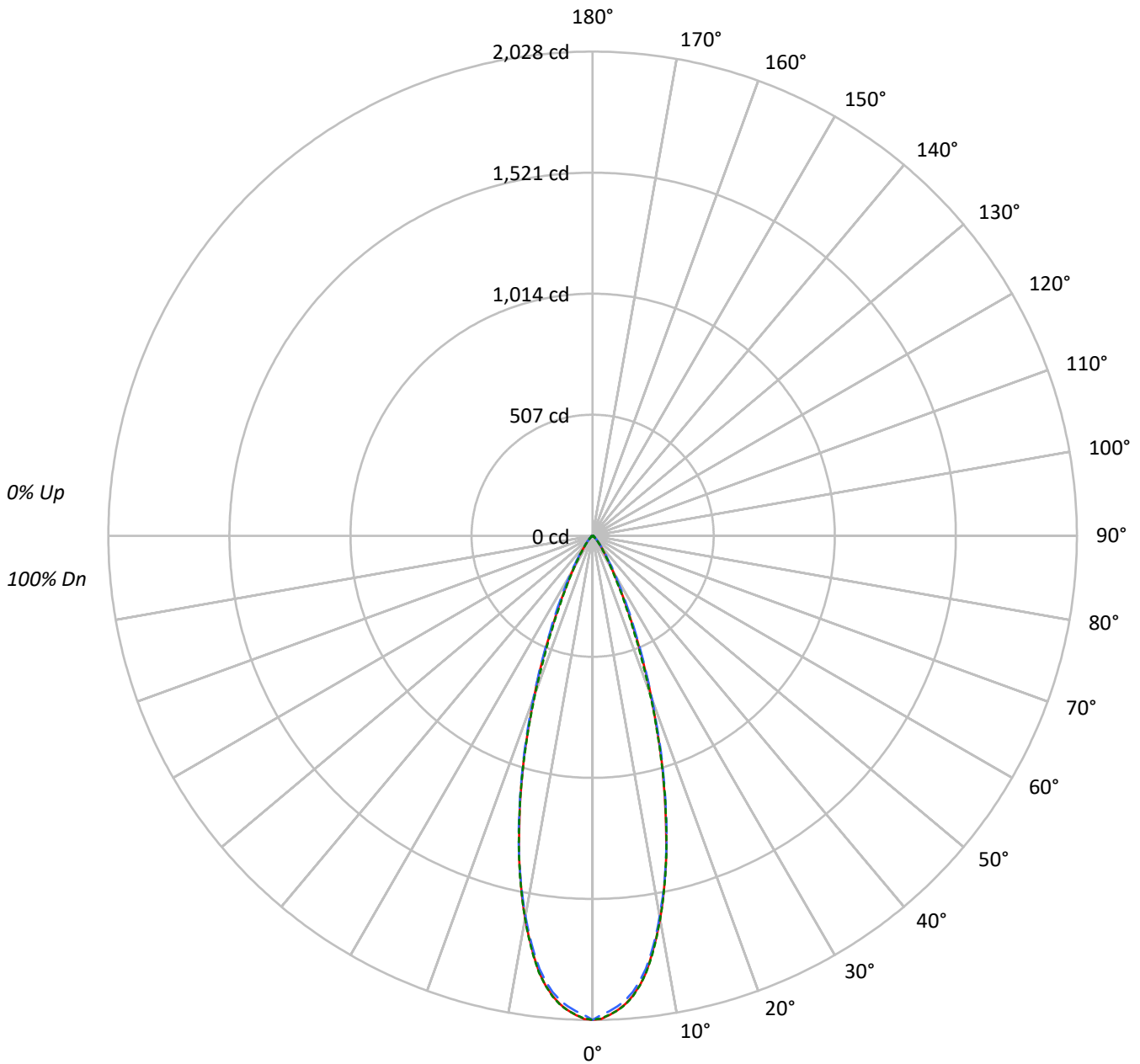
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1000488	1000488	1000488
5°	957460	950279	958946
10°	815734	810574	816585
15°	601222	605155	603163
20°	375340	382270	367045
25°	193903	208002	184159
30°	92973	106531	88586
35°	48002	53121	44930
40°	26921	28273	25504
45°	16327	16327	15768
50°	8520	10438	8520
55°	4387	6967	4731
60°	5032	5032	5032
65°	5487	5487	5487
70°	6780	6203	6780
75°	6481	6481	6481
80°	5966	5966	5966
85°	5095	5095	5095



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.4	23.0
10°-20°	320.4	42.2
20°-30°	173.7	22.9
30°-40°	55.8	7.3
40°-50°	19.0	2.5
50°-60°	6.7	0.9
60°-70°	4.8	0.6
70°-80°	3.6	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°	668.5	88.0
0°-40°	724.3	95.4
0°-60°	749.9	98.8
0°-90°	759.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	759.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2028	2028	2028	2028	2028	
5°	1933	1921	1919	1938	1936	175
15°	1177	1187	1185	1190	1181	319
25°	356	372	382	356	338	171
35°	80	83	88	80	75	54
45°	23	24	23	23	23	19
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°	2027.9	2027.9	2027.9	2027.9	2027.9
1°	2024.5	2010.0	2007.8	2026.6	2022.3
2°	2008.3	1994.6	1992.5	2011.2	2007.4
3°	1990.4	1978.0	1973.8	1993.4	1990.8
4°	1966.5	1955.0	1951.2	1970.8	1968.6
5°	1933.3	1921.4	1918.8	1938.0	1936.3
6°	1892.4	1882.6	1877.9	1897.1	1893.7
7°	1841.3	1832.3	1827.2	1841.3	1843.0
8°	1774.8	1770.5	1764.6	1778.6	1778.6
9°	1704.1	1700.2	1693.9	1706.6	1706.6
10°	1628.3	1625.7	1618.0	1630.0	1630.0
11°	1545.2	1543.9	1538.4	1548.2	1548.2
12°	1457.8	1460.8	1455.7	1464.2	1461.3
13°	1370.5	1369.2	1369.7	1376.0	1371.4
14°	1271.7	1279.3	1280.6	1284.5	1277.2
15°	1177.1	1186.9	1184.8	1190.3	1180.9
16°	1080.4	1091.5	1091.0	1092.3	1083.4
17°	990.1	996.5	996.9	995.6	984.5
18°	893.8	902.7	902.7	900.6	887.4
19°	799.6	806.5	811.1	806.5	791.1
20°	714.9	719.5	728.1	716.1	699.1
21°	633.5	637.8	645.0	630.9	612.2
22°	555.5	561.1	567.9	551.7	532.1
23°	482.7	495.5	498.0	475.9	459.3
24°	415.8	430.3	434.5	412.0	394.5
25°	356.2	372.3	382.1	355.7	338.3
26°	304.6	320.4	332.3	305.9	289.3
27°	259.4	276.1	288.4	263.7	247.9
28°	220.7	236.9	249.6	226.6	211.7
29°	191.7	201.1	213.9	194.7	181.1
30°	163.2	173.4	187.0	167.4	155.5
32.5°	112.0	117.6	128.2	116.3	106.9
35°	79.7	83.1	88.2	80.1	74.6
37.5°	56.7	58.4	61.3	56.7	53.7
40°	41.8	42.6	43.9	41.3	39.6
42.5°	31.1	31.5	31.5	30.7	29.8
45°	23.4	23.9	23.4	23.4	22.6
47.5°	17.0	18.3	17.9	17.9	16.6
50°	11.1	13.6	13.6	13.2	11.1
52.5°	6.8	9.4	10.7	9.4	7.2
55°	5.1	6.4	8.1	6.4	5.5
57.5°	5.1	5.1	6.0	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°	4.7	4.7	4.7	4.7	4.7
70°	4.7	4.7	4.3	4.7	4.7
72.5°	4.3	4.3	3.8	4.3	3.8
75°	3.4	3.4	3.4	3.4	3.4
77.5°	2.6	2.6	2.6	2.6	2.6
80°	2.1	2.1	2.1	2.1	2.1
82.5°	1.3	1.3	1.3	1.7	1.3
85°	0.9	0.9	0.9	0.9	0.9
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°	4.7	5.1	4.7	5.1	4.7



(END OF REPORT)