

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: P283587

Luminaire Tested: **LDA2B109030D010 EU2B10FL409030 2LBAPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283587
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 2LBAPINSQ1MB
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ PinHole, MB

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 743.4 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

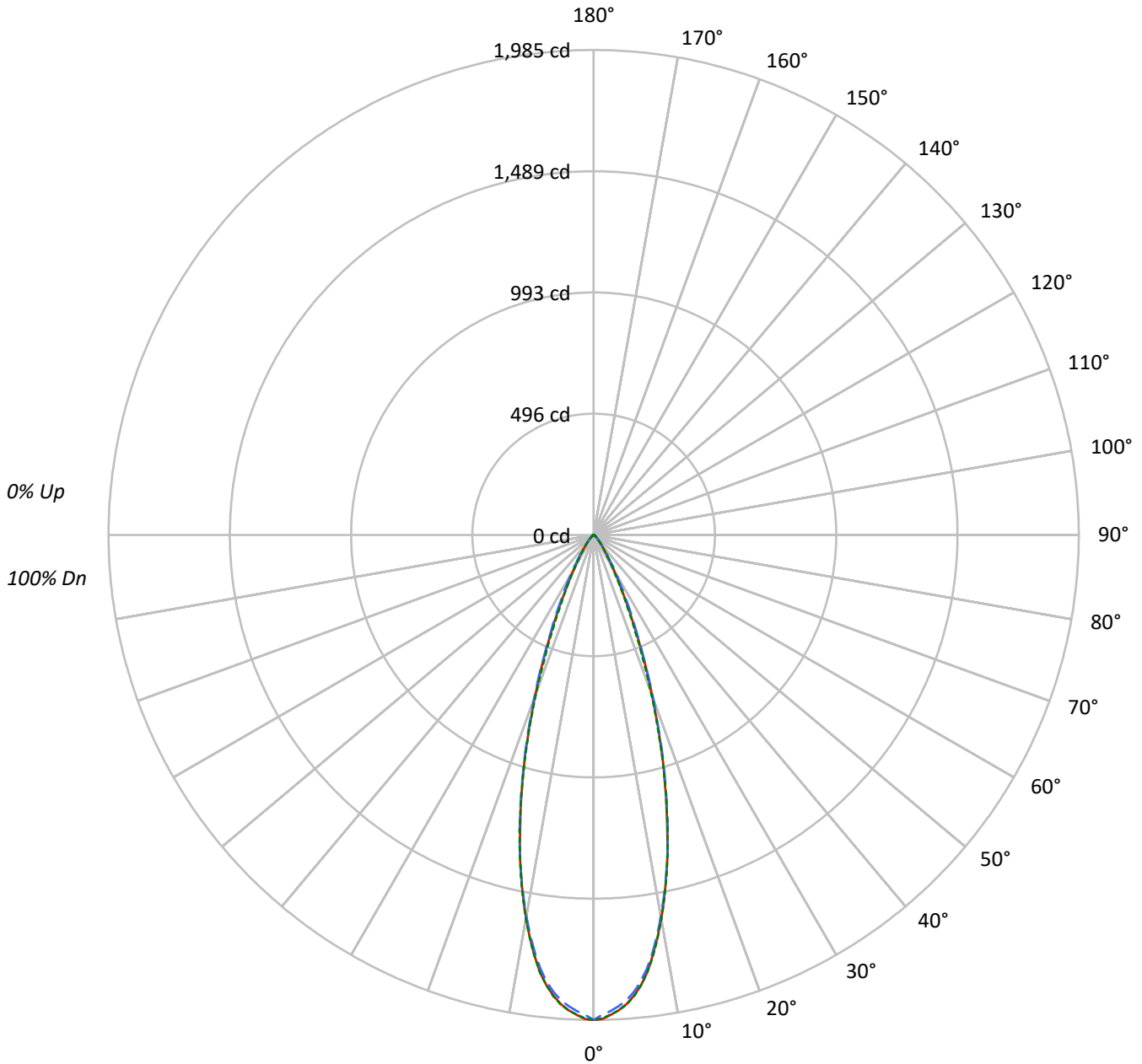
Input Watts (W): 10
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	979471	979471	979471
5°	937353	930320	938789
10°	798601	793591	799402
15°	588606	592437	590496
20°	367465	374238	359327
25°	189820	203647	180294
30°	90979	104309	86706
35°	46978	51977	43967
40°	26341	27694	24989
45°	15978	15978	15420
50°	8289	10208	8289
55°	4301	6795	4645
60°	4934	4934	4934
65°	5370	5370	5370
70°	6635	6058	6635
75°	6290	6290	6290
80°	5966	5966	5966
85°	4529	4529	4529



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.8	23.0
10°-20°	313.7	42.2
20°-30°	170.1	22.9
30°-40°	54.6	7.3
40°-50°	18.6	2.5
50°-60°	6.5	0.9
60°-70°	4.7	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°	654.5	88.0
0°-40°	709.1	95.4
0°-60°	734.2	98.8
0°-90°	743.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	743.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1985	1985	1985	1985	1985	
5°	1893	1881	1878	1897	1896	171
15°	1152	1162	1160	1165	1156	312
25°	349	364	374	348	331	167
35°	78	81	86	78	73	53
45°	23	23	23	23	22	18
55°	5	6	8	6	5	5
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°	1985.3	1985.3	1985.3	1985.3	1985.3
1°	1981.9	1967.8	1965.7	1984.0	1979.9
2°	1966.1	1952.7	1950.7	1969.0	1965.3
3°	1948.6	1936.5	1932.3	1951.5	1949.0
4°	1925.2	1914.0	1910.2	1929.4	1927.3
5°	1892.7	1881.0	1878.5	1897.3	1895.6
6°	1852.6	1843.1	1838.5	1857.2	1853.9
7°	1802.6	1793.8	1788.8	1802.6	1804.3
8°	1737.5	1733.4	1727.5	1741.3	1741.3
9°	1668.3	1664.5	1658.3	1670.8	1670.8
10°	1594.1	1591.6	1584.1	1595.7	1595.7
11°	1512.7	1511.5	1506.1	1515.7	1515.7
12°	1427.2	1430.2	1425.1	1433.5	1430.6
13°	1341.7	1340.5	1340.9	1347.2	1342.6
14°	1245.0	1252.5	1253.7	1257.5	1250.4
15°	1152.4	1162.0	1159.9	1165.3	1156.1
16°	1057.7	1068.5	1068.1	1069.4	1060.6
17°	969.3	975.5	976.0	974.7	963.9
18°	875.0	883.8	883.8	881.7	868.8
19°	782.8	789.5	794.1	789.5	774.5
20°	699.9	704.4	712.8	701.1	684.4
21°	620.2	624.4	631.5	617.7	599.3
22°	543.9	549.3	556.0	540.1	520.9
23°	472.5	485.1	487.6	465.9	449.6
24°	407.1	421.2	425.4	403.3	386.2
25°	348.7	364.5	374.1	348.3	331.2
26°	298.2	313.6	325.3	299.5	283.2
27°	254.0	270.3	282.4	258.2	242.7
28°	216.0	231.9	244.4	221.9	207.3
29°	187.7	196.9	209.4	190.6	177.3
30°	159.7	169.7	183.1	163.9	152.2
32.5°	109.7	115.1	125.5	113.9	104.7
35°	78.0	81.3	86.3	78.4	73.0
37.5°	55.5	57.1	60.1	55.5	52.6
40°	40.9	41.7	43.0	40.5	38.8
42.5°	30.4	30.9	30.9	30.0	29.2
45°	22.9	23.4	22.9	22.9	22.1
47.5°	16.7	17.9	17.5	17.5	16.3
50°	10.8	13.3	13.3	12.9	10.8
52.5°	6.7	9.2	10.4	9.2	7.1
55°	5.0	6.3	7.9	6.3	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°	4.6	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°	3.3	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°	1.3	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°	5.0	5.0	5.0	5.0	5.0
65°	4.6	5.0	4.6	5.0	4.6



(END OF REPORT)