

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: P283576

Luminaire Tested: **LDA2B109024D010 EU2B10FL409024 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283576
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: LDA2B109024D010 EU2B10FL409024 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: 675.5 lumens
Efficiency: N/A
Efficacy: 67.5 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

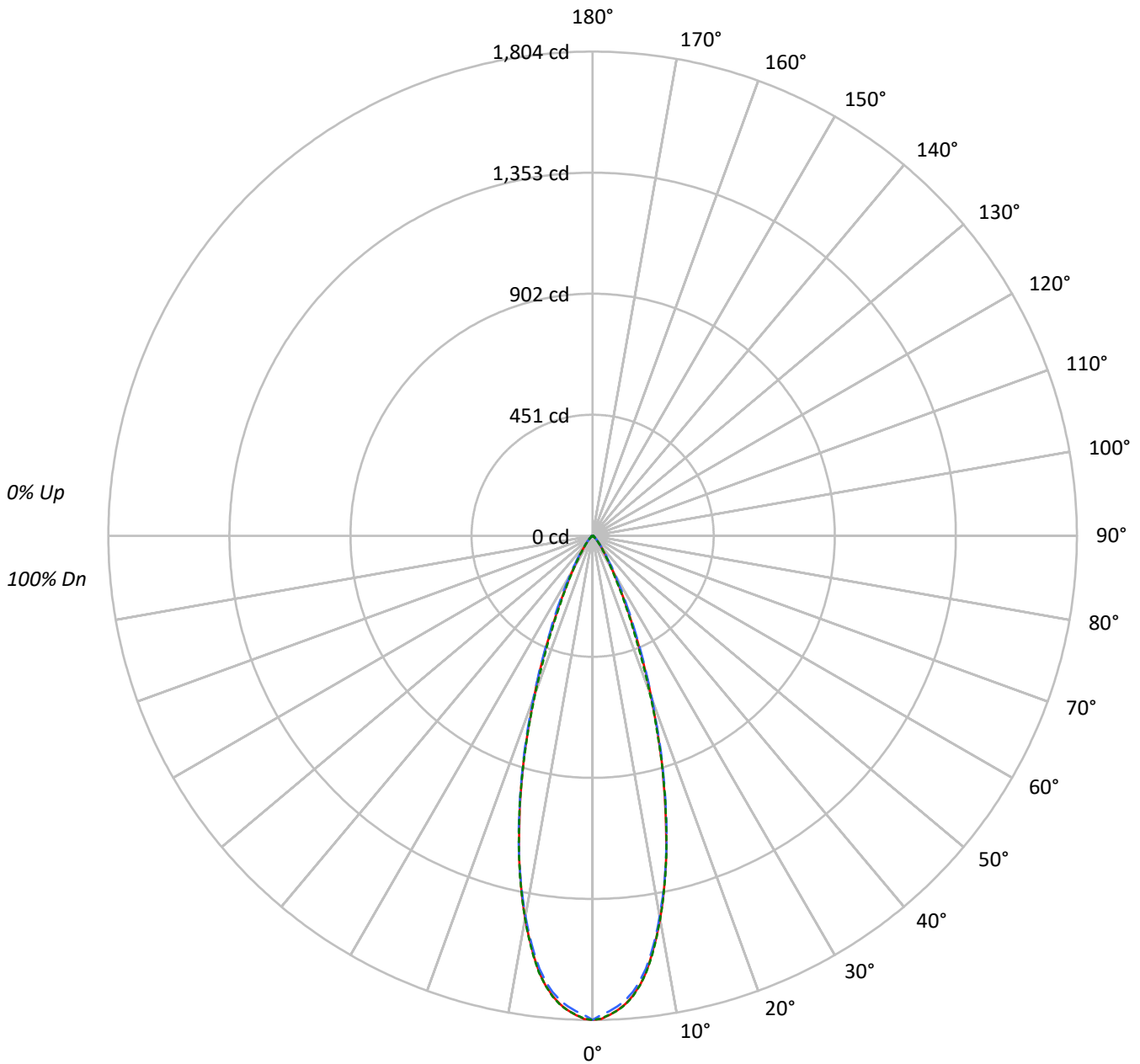
Input Watts (W): 10
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20										
RC	80					70					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	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							100						
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95							95						
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90							90						
3	105	100	96	92	104	99	95	92	96	93	90	94	91	89	92	89	88	86							86						
4	101	95	90	87	100	94	90	86	92	88	85	90	87	84	88	86	83	82							82						
5	98	91	86	82	96	90	85	82	88	84	81	86	83	80	85	82	80	79							79						
6	94	87	82	78	93	86	81	78	84	80	77	83	80	77	82	79	76	75							75						
7	91	83	78	75	89	82	78	74	81	77	74	80	76	74	79	76	73	72							72						
8	87	80	75	71	86	79	74	71	78	74	71	77	73	71	76	73	70	69							69						
9	84	77	72	69	83	76	72	68	75	71	68	74	71	68	74	70	68	67							67						
10	82	74	69	66	81	73	69	66	73	69	66	72	68	65	71	68	65	64							64						

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	889975	889975	889975
5°	851725	845336	853012
10°	725609	721050	726410
15°	534823	538296	536559
20°	333863	340058	326513
25°	172455	185029	163799
30°	82661	94796	78787
35°	42702	47219	39931
40°	23894	25117	22670
45°	14513	14513	14024
50°	7599	9287	7599
55°	3871	6193	4215
60°	4440	4440	4440
65°	4903	4903	4903
70°	6058	5481	6058
75°	5719	5719	5719
80°	5398	5398	5398
85°	4529	4529	4529



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.2	23.0
10°-20°	285.0	42.2
20°-30°	154.5	22.9
30°-40°	49.6	7.3
40°-50°	16.9	2.5
50°-60°	5.9	0.9
60°-70°	4.3	0.6
70°-80°	3.2	0.5
80°-90°	0.9	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°	594.7	88.0
0°-40°	644.3	95.4
0°-60°	667.1	98.8
0°-90°	675.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	675.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1804	1804	1804	1804	1804	
5°	1720	1709	1707	1724	1722	156
15°	1047	1056	1054	1059	1050	284
25°	317	331	340	316	301	152
35°	71	74	78	71	66	48
45°	21	21	21	21	20	17
55°	4	6	7	6	5	5
65°	4	4	4	4	4	4
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°	1803.9	1803.9	1803.9	1803.9	1803.9
1°	1800.9	1788.0	1786.1	1802.8	1799.0
2°	1786.5	1774.4	1772.5	1789.1	1785.7
3°	1770.6	1759.6	1755.8	1773.2	1770.9
4°	1749.3	1739.1	1735.7	1753.1	1751.2
5°	1719.8	1709.2	1706.9	1724.0	1722.4
6°	1683.4	1674.7	1670.5	1687.6	1684.5
7°	1637.9	1630.0	1625.4	1637.9	1639.4
8°	1578.8	1575.0	1569.7	1582.2	1582.2
9°	1515.9	1512.5	1506.8	1518.2	1518.2
10°	1448.4	1446.2	1439.3	1450.0	1450.0
11°	1374.5	1373.4	1368.5	1377.2	1377.2
12°	1296.8	1299.5	1295.0	1302.5	1299.9
13°	1219.2	1218.0	1218.4	1224.1	1219.9
14°	1131.2	1138.1	1139.2	1142.6	1136.2
15°	1047.1	1055.8	1053.9	1058.9	1050.5
16°	961.1	970.9	970.6	971.7	963.7
17°	880.7	886.4	886.8	885.7	875.8
18°	795.1	803.0	803.0	801.2	789.4
19°	711.3	717.4	721.6	717.4	703.8
20°	635.9	640.1	647.7	637.1	621.9
21°	563.5	567.3	573.8	561.3	544.6
22°	494.2	499.1	505.2	490.8	473.3
23°	429.4	440.7	443.0	423.3	408.5
24°	369.9	382.8	386.6	366.5	350.9
25°	316.8	331.2	339.9	316.4	300.9
26°	271.0	285.0	295.6	272.1	257.3
27°	230.8	245.6	256.6	234.6	220.6
28°	196.3	210.7	222.1	201.6	188.3
29°	170.5	178.9	190.2	173.2	161.1
30°	145.1	154.2	166.4	148.9	138.3
32.5°	99.7	104.6	114.1	103.5	95.1
35°	70.9	73.9	78.4	71.2	66.3
37.5°	50.4	51.9	54.6	50.4	47.8
40°	37.1	37.9	39.0	36.8	35.2
42.5°	27.7	28.0	28.0	27.3	26.5
45°	20.8	21.2	20.8	20.8	20.1
47.5°	15.2	16.3	15.9	15.9	14.8
50°	9.9	12.1	12.1	11.7	9.9
52.5°	6.1	8.3	9.5	8.3	6.4
55°	4.5	5.7	7.2	5.7	4.9
57.5°	4.5	4.5	5.3	4.5	4.5
60°	4.5	4.5	4.5	4.5	4.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	4.2	4.2	4.2	4.2	4.2
70°	4.2	4.2	3.8	4.2	4.2
72.5°	3.8	3.8	3.4	3.8	3.4
75°	3.0	3.0	3.0	3.0	3.0
77.5°	2.3	2.3	2.3	2.3	2.3
80°	1.9	1.9	1.9	1.9	1.9
82.5°	1.1	1.1	1.1	1.5	1.1
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°	4.5	4.5	4.5	4.5	4.5
65°	4.2	4.5	4.2	4.5	4.2



(END OF REPORT)