

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: P283903

Luminaire Tested: **LDA2B108040D010 EU2B10WFL558040 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283903
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-61)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B108040D010 EU2B10WFL558040 2LBALPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND
2in Adj SQ Pinhole w-lens, MMS

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 962.1 lumens
Efficiency: N/A
Efficacy: 96.2 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.68
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

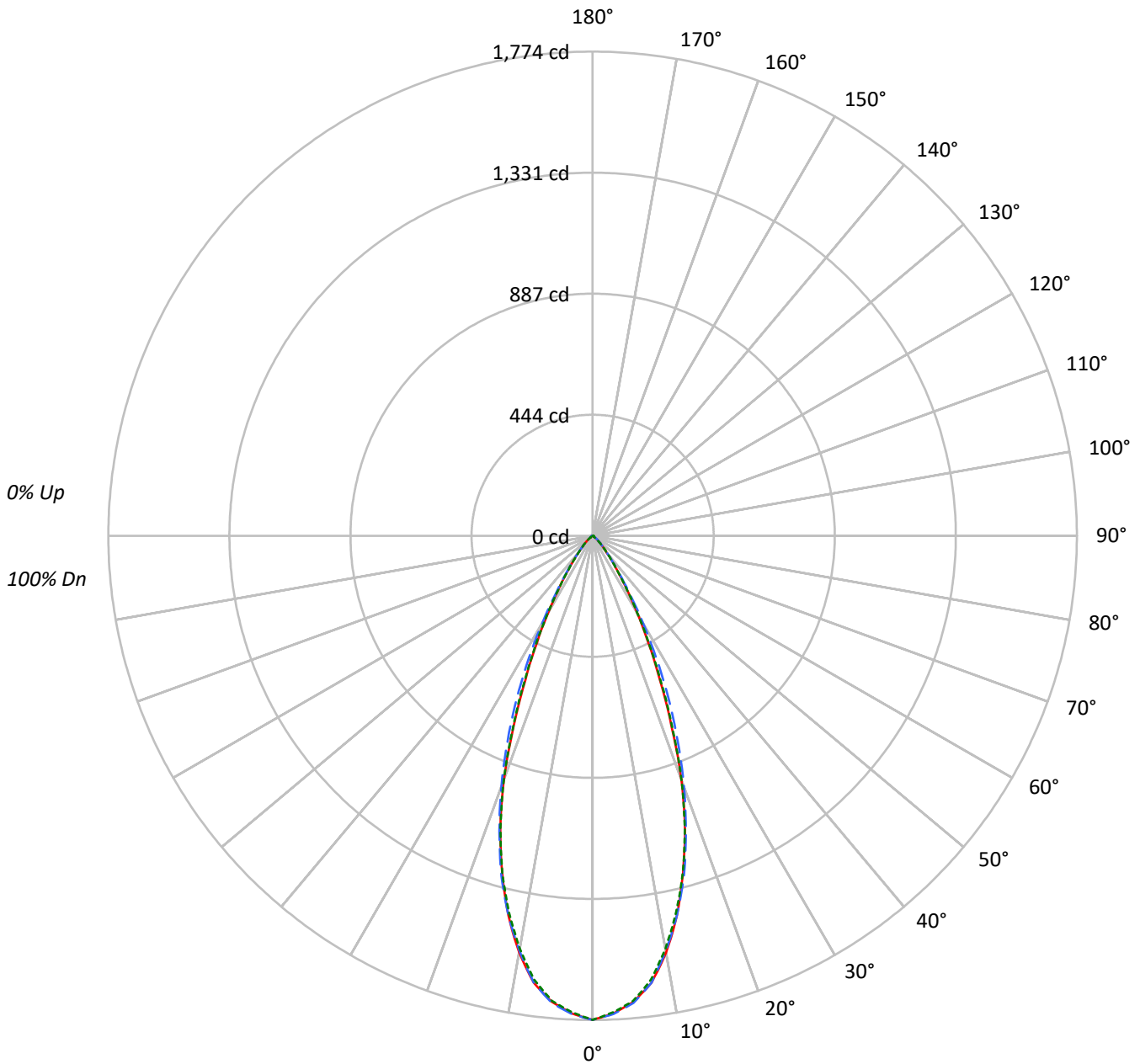
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94																			
2	109	104	101	98	107	103	99	96	100	97	94	97	94	92	94	92	90	89																			
3	104	98	94	90	102	97	93	89	94	91	88	92	89	87	90	87	85	84																			
4	100	93	88	84	98	92	87	83	90	86	82	88	84	81	86	83	81	79																			
5	95	88	82	79	94	87	82	78	85	81	78	84	80	77	82	79	76	75																			
6	91	83	78	74	90	82	77	74	81	77	73	80	76	73	78	75	72	71																			
7	87	79	74	70	86	78	73	70	77	73	69	76	72	69	75	71	69	67																			
8	84	75	70	66	83	75	70	66	74	69	66	73	69	66	72	68	65	64																			
9	81	72	67	63	80	71	66	63	71	66	63	70	66	63	69	65	62	61																			
10	77	69	64	60	76	68	63	60	68	63	60	67	63	60	66	62	60	58																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	875125	875125	875125
5°	848852	850883	847020
10°	776959	773853	769193
15°	653525	659603	652503
20°	499771	513054	498983
25°	317365	357811	323570
30°	184578	208391	187825
35°	97570	103773	97871
40°	51523	53842	51523
45°	28816	29862	29165
50°	13432	17039	13432
55°	4903	9290	5333
60°	5624	5624	5624
65°	6070	6654	6070
70°	7501	6635	7501
75°	6862	6862	6862
80°	7387	5966	7387
85°	5661	5661	5661



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.3	16.5
10°-20°	352.5	36.6
20°-30°	284.7	29.6
30°-40°	112.5	11.7
40°-50°	34.6	3.6
50°-60°	8.9	0.9
60°-70°	5.4	0.6
70°-80°	3.9	0.4
80°-90°	1.2	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°	795.6	82.7
0°-40°	908.1	94.4
0°-60°	951.6	98.9
0°-90°	962.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	962.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1774	1774	1774	1774	1774	
5°	1714	1717	1718	1714	1710	159
15°	1280	1283	1291	1286	1278	351
25°	583	611	657	622	594	271
35°	162	167	172	167	162	109
45°	41	42	43	42	42	34
55°	6	8	11	8	6	7
65°	5	6	6	6	5	5
75°	4	4	4	4	4	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°	1773.8	1773.8	1773.8	1773.8	1773.8
2.5°	1751.6	1752.7	1754.2	1752.1	1747.0
5°	1714.0	1717.1	1718.1	1714.5	1710.3
7.5°	1652.0	1648.4	1651.5	1645.3	1640.2
10°	1550.9	1546.3	1544.7	1535.4	1535.4
12.5°	1426.1	1424.5	1425.5	1420.9	1413.7
15°	1279.5	1283.1	1291.4	1286.2	1277.5
17.5°	1124.2	1129.4	1136.6	1135.1	1123.2
20°	951.9	966.9	977.2	967.4	950.4
22.5°	755.9	787.8	814.2	793.5	765.7
25°	583.0	610.9	657.3	622.2	594.4
27.5°	442.2	462.3	504.6	470.0	450.9
30°	324.0	336.4	365.8	343.1	329.7
32.5°	231.7	240.4	252.8	239.4	232.7
35°	162.0	166.6	172.3	167.2	162.5
37.5°	114.0	115.6	119.7	115.6	113.5
40°	80.0	80.5	83.6	81.0	80.0
42.5°	57.8	57.8	59.3	58.3	57.8
45°	41.3	41.8	42.8	42.3	41.8
47.5°	29.4	30.4	30.4	31.0	28.9
50°	17.5	21.7	22.2	21.7	17.5
52.5°	9.3	12.9	16.0	12.9	9.3
55°	5.7	7.7	10.8	7.7	6.2
57.5°	5.7	5.7	7.2	6.2	5.7
60°	5.7	5.7	5.7	5.7	5.7
62.5°	5.7	5.7	5.7	5.7	5.7
65°	5.2	5.7	5.7	5.7	5.2
67.5°	5.2	5.2	5.2	5.2	5.2
70°	5.2	5.2	4.6	5.2	5.2
72.5°	4.6	4.6	4.1	4.6	4.6
75°	3.6	3.6	3.6	3.6	3.6
77.5°	3.1	3.1	3.1	3.1	3.1
80°	2.6	2.6	2.1	2.6	2.6
82.5°	1.5	1.5	1.5	1.5	1.5
85°	1.0	1.0	1.0	1.0	1.0
87.5°	0.5	0.5	0.5	0.5	0.5
90°	0.0	0.0	0.0	0.0	0.0



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







(END OF REPORT)