

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: P283941

Luminaire Tested: **LDA2B109050D010 EU2B10WFL559050 2LBAPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283941
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: LDA2B109050D010 EU2B10WFL559050 2LBAPINSQ1MB
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND
2in Adj SQ PinHole, MB

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 850.6 lumens
Efficiency: N/A
Efficacy: 85.1 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

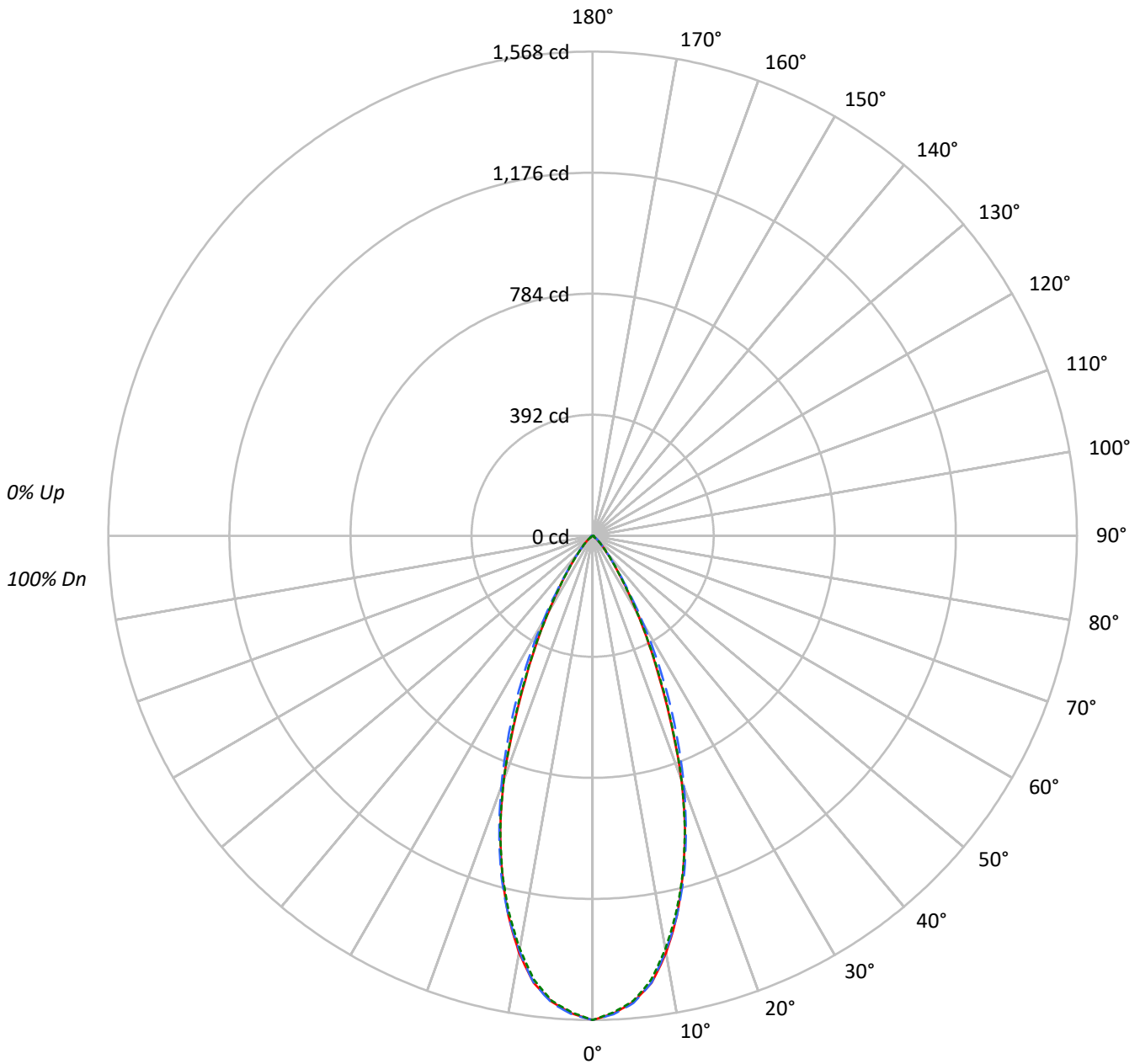
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					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	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94					94			
2	109	104	101	98	107	103	99	96	100	97	94	97	94	92	94	92	90	89					89			
3	104	98	94	90	102	97	93	89	94	91	88	92	89	87	90	87	85	84					84			
4	100	93	88	84	98	92	87	83	90	86	82	88	84	81	86	83	81	79					79			
5	95	88	82	79	94	87	82	78	85	81	78	84	80	77	82	79	76	75					75			
6	91	83	78	74	90	82	77	74	81	77	73	80	76	73	78	75	72	71					71			
7	87	79	74	70	86	78	73	70	77	73	69	76	72	69	75	71	69	67					67			
8	84	75	70	66	83	75	70	66	74	69	66	73	69	66	72	68	65	64					64			
9	81	72	67	63	80	71	66	63	71	66	63	70	66	63	69	65	62	61					61			
10	77	69	64	60	76	68	63	60	68	63	60	67	63	60	66	62	60	58					58			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	773690	773690	773690
5°	750447	752230	748862
10°	686884	684178	680070
15°	577778	583141	576859
20°	441861	453569	441126
25°	280565	316330	286064
30°	163215	184236	166063
35°	86247	91728	86548
40°	45533	47594	45533
45°	25467	26444	25746
50°	11897	15044	11897
55°	4301	8257	4731
60°	4934	4934	4934
65°	5370	5837	5370
70°	6635	5914	6635
75°	6100	6100	6100
80°	6535	5114	6535
85°	5095	5095	5095



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.0	16.5
10°-20°	311.7	36.6
20°-30°	251.7	29.6
30°-40°	99.5	11.7
40°-50°	30.5	3.6
50°-60°	7.9	0.9
60°-70°	4.8	0.6
70°-80°	3.5	0.4
80°-90°	1.1	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°	703.4	82.7
0°-40°	802.9	94.4
0°-60°	841.3	98.9
0°-90°	850.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	850.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1568	1568	1568	1568	1568	
5°	1515	1518	1519	1516	1512	140
15°	1131	1134	1142	1137	1129	311
25°	515	540	581	550	526	240
35°	143	147	152	148	144	96
45°	36	37	38	37	37	30
55°	5	7	10	7	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°	1568.2	1568.2	1568.2	1568.2	1568.2
2.5°	1548.6	1549.5	1550.9	1549.0	1544.5
5°	1515.3	1518.0	1518.9	1515.7	1512.1
7.5°	1460.5	1457.4	1460.1	1454.6	1450.1
10°	1371.1	1367.0	1365.7	1357.5	1357.5
12.5°	1260.8	1259.4	1260.3	1256.2	1249.8
15°	1131.2	1134.4	1141.7	1137.1	1129.4
17.5°	993.9	998.5	1004.9	1003.5	993.0
20°	841.6	854.8	863.9	855.3	840.2
22.5°	668.2	696.5	719.8	701.5	676.9
25°	515.4	540.1	581.1	550.1	525.5
27.5°	390.9	408.7	446.1	415.5	398.7
30°	286.5	297.4	323.4	303.3	291.5
32.5°	204.8	212.6	223.5	211.6	205.7
35°	143.2	147.3	152.3	147.8	143.7
37.5°	100.8	102.2	105.8	102.2	100.3
40°	70.7	71.2	73.9	71.6	70.7
42.5°	51.1	51.1	52.5	51.5	51.1
45°	36.5	36.9	37.9	37.4	36.9
47.5°	26.0	26.9	26.9	27.4	25.5
50°	15.5	19.2	19.6	19.2	15.5
52.5°	8.2	11.4	14.1	11.4	8.2
55°	5.0	6.8	9.6	6.8	5.5
57.5°	5.0	5.0	6.4	5.5	5.0
60°	5.0	5.0	5.0	5.0	5.0
62.5°	5.0	5.0	5.0	5.0	5.0
65°	4.6	5.0	5.0	5.0	4.6
67.5°	4.6	4.6	4.6	4.6	4.6
70°	4.6	4.6	4.1	4.6	4.6
72.5°	4.1	4.1	3.6	4.1	4.1
75°	3.2	3.2	3.2	3.2	3.2
77.5°	2.7	2.7	2.7	2.7	2.7
80°	2.3	2.3	1.8	2.3	2.3
82.5°	1.4	1.4	1.4	1.4	1.4
85°	0.9	0.9	0.9	0.9	0.9
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)