

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: P283948

Luminaire Tested: **LDA2B109727D010 EU2B10WFL559727 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283948
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: LDA2B109727D010 EU2B10WFL559727 2LBAPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND
2in Adj SQ PinHole, MMS

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 686.4 lumens
Efficiency: N/A
Efficacy: 68.6 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

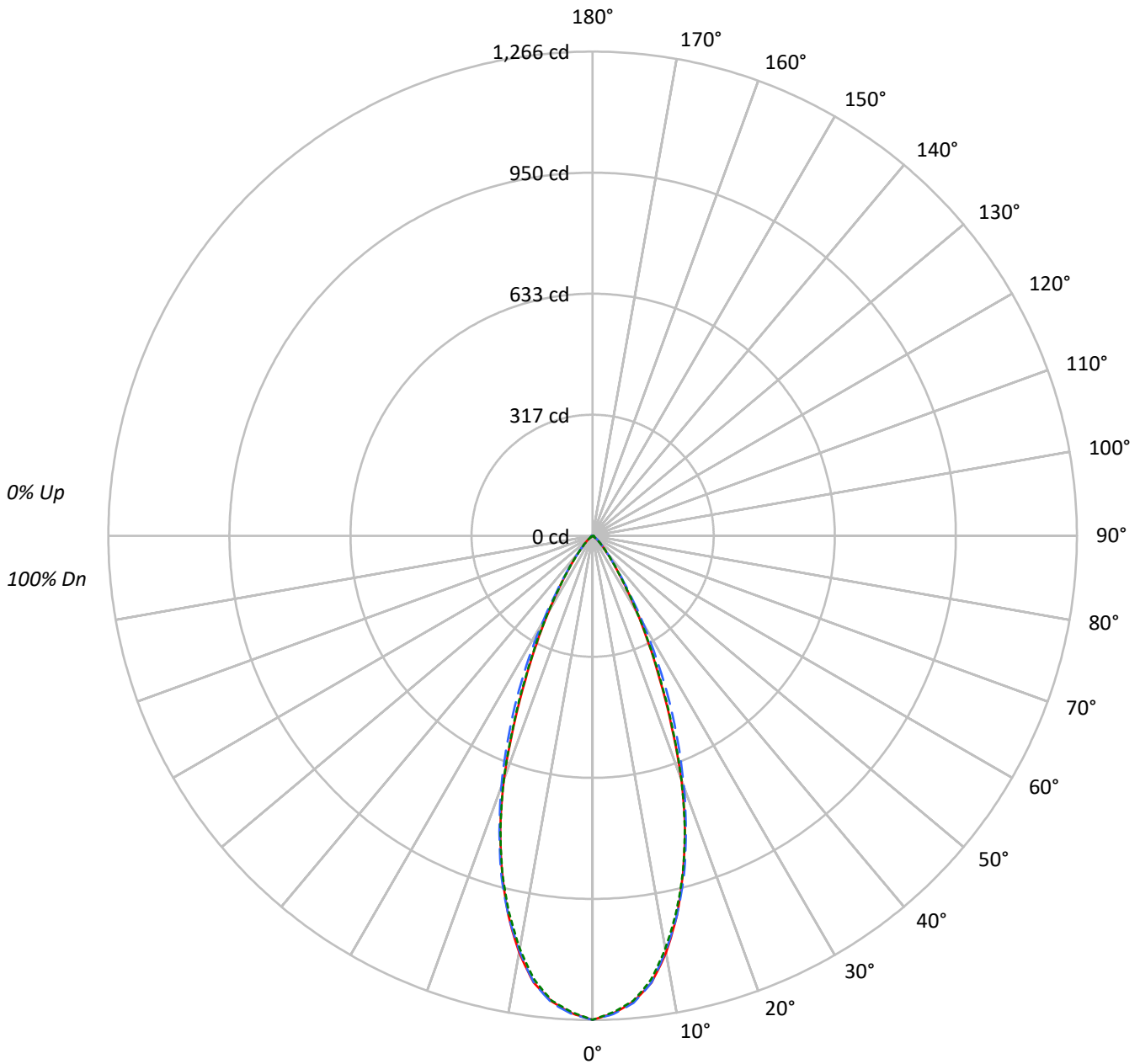
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	624399	624399	624399
5°	605637	607123	604399
10°	554376	552172	548866
15°	466329	470620	465563
20°	356597	366047	356019
25°	226456	255307	230865
30°	131711	148688	133990
35°	69624	74081	69865
40°	36775	38385	36775
45°	20583	21350	20792
50°	9594	12127	9594
55°	3441	6623	3785
60°	3947	3947	3947
65°	4319	4670	4319
70°	5337	4760	5337
75°	4956	4956	4956
80°	5114	4262	5114
85°	3962	3962	3962



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.0	16.5
10°-20°	251.5	36.6
20°-30°	203.1	29.6
30°-40°	80.3	11.7
40°-50°	24.7	3.6
50°-60°	6.3	0.9
60°-70°	3.8	0.6
70°-80°	2.8	0.4
80°-90°	0.8	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°	567.7	82.7
0°-40°	648.0	94.4
0°-60°	679.0	98.9
0°-90°	686.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	686.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1266	1266	1266	1266	1266	
5°	1223	1225	1226	1223	1220	113
15°	913	916	921	918	912	251
25°	416	436	469	444	424	194
35°	116	119	123	119	116	77
45°	30	30	31	30	30	24
55°	4	6	8	6	4	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°	1265.6	1265.6	1265.6	1265.6	1265.6
2.5°	1249.8	1250.5	1251.7	1250.2	1246.5
5°	1222.9	1225.1	1225.9	1223.3	1220.4
7.5°	1178.8	1176.2	1178.4	1174.0	1170.3
10°	1106.6	1103.3	1102.2	1095.6	1095.6
12.5°	1017.5	1016.4	1017.2	1013.8	1008.7
15°	913.0	915.5	921.4	917.8	911.5
17.5°	802.2	805.8	811.0	809.9	801.4
20°	679.2	689.9	697.2	690.2	678.1
22.5°	539.3	562.1	580.9	566.2	546.3
25°	416.0	435.9	469.0	444.0	424.1
27.5°	315.5	329.8	360.0	335.4	321.7
30°	231.2	240.0	261.0	244.8	235.2
32.5°	165.3	171.6	180.4	170.8	166.0
35°	115.6	118.9	123.0	119.3	116.0
37.5°	81.4	82.5	85.4	82.5	81.0
40°	57.1	57.4	59.6	57.8	57.1
42.5°	41.2	41.2	42.3	41.6	41.2
45°	29.5	29.8	30.6	30.2	29.8
47.5°	21.0	21.7	21.7	22.1	20.6
50°	12.5	15.5	15.8	15.5	12.5
52.5°	6.6	9.2	11.4	9.2	6.6
55°	4.0	5.5	7.7	5.5	4.4
57.5°	4.0	4.0	5.2	4.4	4.0
60°	4.0	4.0	4.0	4.0	4.0
62.5°	4.0	4.0	4.0	4.0	4.0
65°	3.7	4.0	4.0	4.0	3.7
67.5°	3.7	3.7	3.7	3.7	3.7
70°	3.7	3.7	3.3	3.7	3.7
72.5°	3.3	3.3	2.9	3.3	3.3
75°	2.6	2.6	2.6	2.6	2.6
77.5°	2.2	2.2	2.2	2.2	2.2
80°	1.8	1.8	1.5	1.8	1.8
82.5°	1.1	1.1	1.1	1.1	1.1
85°	0.7	0.7	0.7	0.7	0.7
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°







(END OF REPORT)