

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: P283922

Luminaire Tested: **LDA2B109030D010 EU2B10WFL559030 2LBAPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283922
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: LDA2B109030D010 EU2B10WFL559030 2LBAPINSQ1MW
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND
2in Adj SQ PinHole, MW

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 803.7 lumens
Efficiency: N/A
Efficacy: 80.4 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

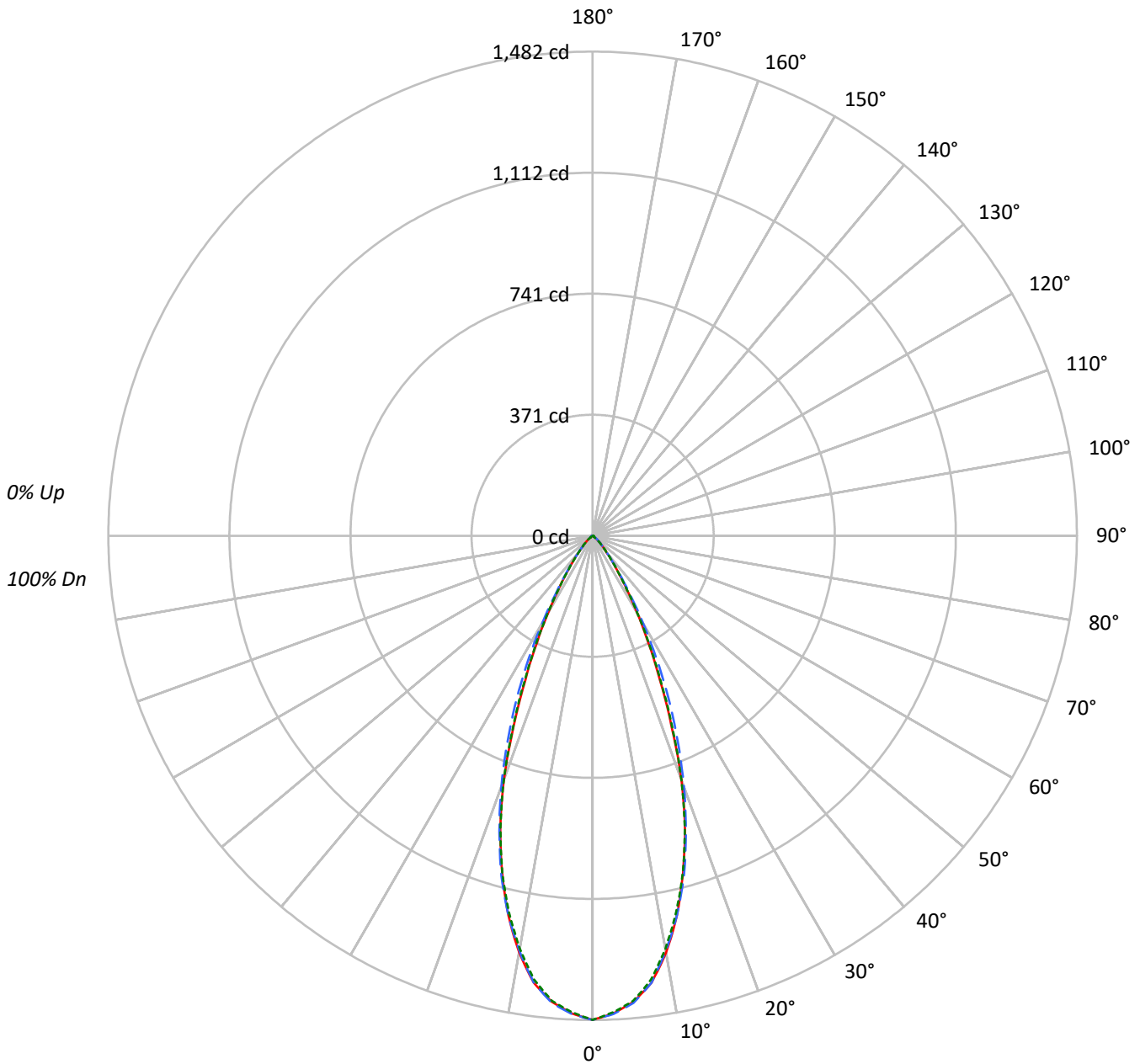
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	731063	731063	731063
5°	709094	710827	707608
10°	649060	646505	642598
15°	545957	551014	545089
20°	417500	428578	416817
25°	265106	298911	270277
30°	154214	174096	156891
35°	81489	86729	81790
40°	43022	44954	43022
45°	24071	24978	24350
50°	11283	14199	11283
55°	4043	7827	4473
60°	4638	4638	4638
65°	5020	5487	5020
70°	6203	5626	6203
75°	5719	5719	5719
80°	6251	4830	6251
85°	5095	5095	5095



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.3	16.5
10°-20°	294.5	36.6
20°-30°	237.8	29.6
30°-40°	94.0	11.7
40°-50°	28.9	3.6
50°-60°	7.4	0.9
60°-70°	4.5	0.6
70°-80°	3.3	0.4
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°	664.6	82.7
0°-40°	758.6	94.4
0°-60°	794.9	98.9
0°-90°	803.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	803.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1482	1482	1482	1482	1482	
5°	1432	1434	1435	1432	1429	133
15°	1069	1072	1079	1074	1067	294
25°	487	510	549	520	496	227
35°	135	139	144	140	136	91
45°	34	35	36	35	35	28
55°	5	6	9	6	5	6
65°	4	5	5	5	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°	1481.8	1481.8	1481.8	1481.8	1481.8
2.5°	1463.3	1464.1	1465.4	1463.7	1459.4
5°	1431.8	1434.4	1435.3	1432.3	1428.8
7.5°	1380.1	1377.1	1379.7	1374.5	1370.2
10°	1295.6	1291.7	1290.5	1282.7	1282.7
12.5°	1191.3	1190.0	1190.9	1187.0	1181.0
15°	1068.9	1071.9	1078.8	1074.5	1067.2
17.5°	939.2	943.5	949.5	948.2	938.3
20°	795.2	807.7	816.3	808.1	793.9
22.5°	631.4	658.2	680.1	662.9	639.6
25°	487.0	510.3	549.1	519.8	496.5
27.5°	369.4	386.2	421.5	392.7	376.7
30°	270.7	281.0	305.6	286.6	275.4
32.5°	193.5	200.9	211.2	200.0	194.4
35°	135.3	139.2	144.0	139.6	135.8
37.5°	95.3	96.5	100.0	96.5	94.8
40°	66.8	67.2	69.8	67.7	66.8
42.5°	48.3	48.3	49.6	48.7	48.3
45°	34.5	34.9	35.8	35.3	34.9
47.5°	24.6	25.4	25.4	25.9	24.1
50°	14.7	18.1	18.5	18.1	14.7
52.5°	7.8	10.8	13.4	10.8	7.8
55°	4.7	6.5	9.1	6.5	5.2
57.5°	4.7	4.7	6.0	5.2	4.7
60°	4.7	4.7	4.7	4.7	4.7
62.5°	4.7	4.7	4.7	4.7	4.7
65°	4.3	4.7	4.7	4.7	4.3
67.5°	4.3	4.3	4.3	4.3	4.3
70°	4.3	4.3	3.9	4.3	4.3
72.5°	3.9	3.9	3.4	3.9	3.9
75°	3.0	3.0	3.0	3.0	3.0
77.5°	2.6	2.6	2.6	2.6	2.6
80°	2.2	2.2	1.7	2.2	2.2
82.5°	1.3	1.3	1.3	1.3	1.3
85°	0.9	0.9	0.9	0.9	0.9
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)