

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: P284034

Luminaire Tested: **LDA2B159727D010 EU2B15WFL559727 2LBALPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P284034
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: LDA2B159727D010 EU2B15WFL559727 2LBALPINSQ1MB
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND
2in Adj SQ Pinhole w-lens, MB

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 831.8 lumens
Efficiency: N/A
Efficacy: 59.0 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

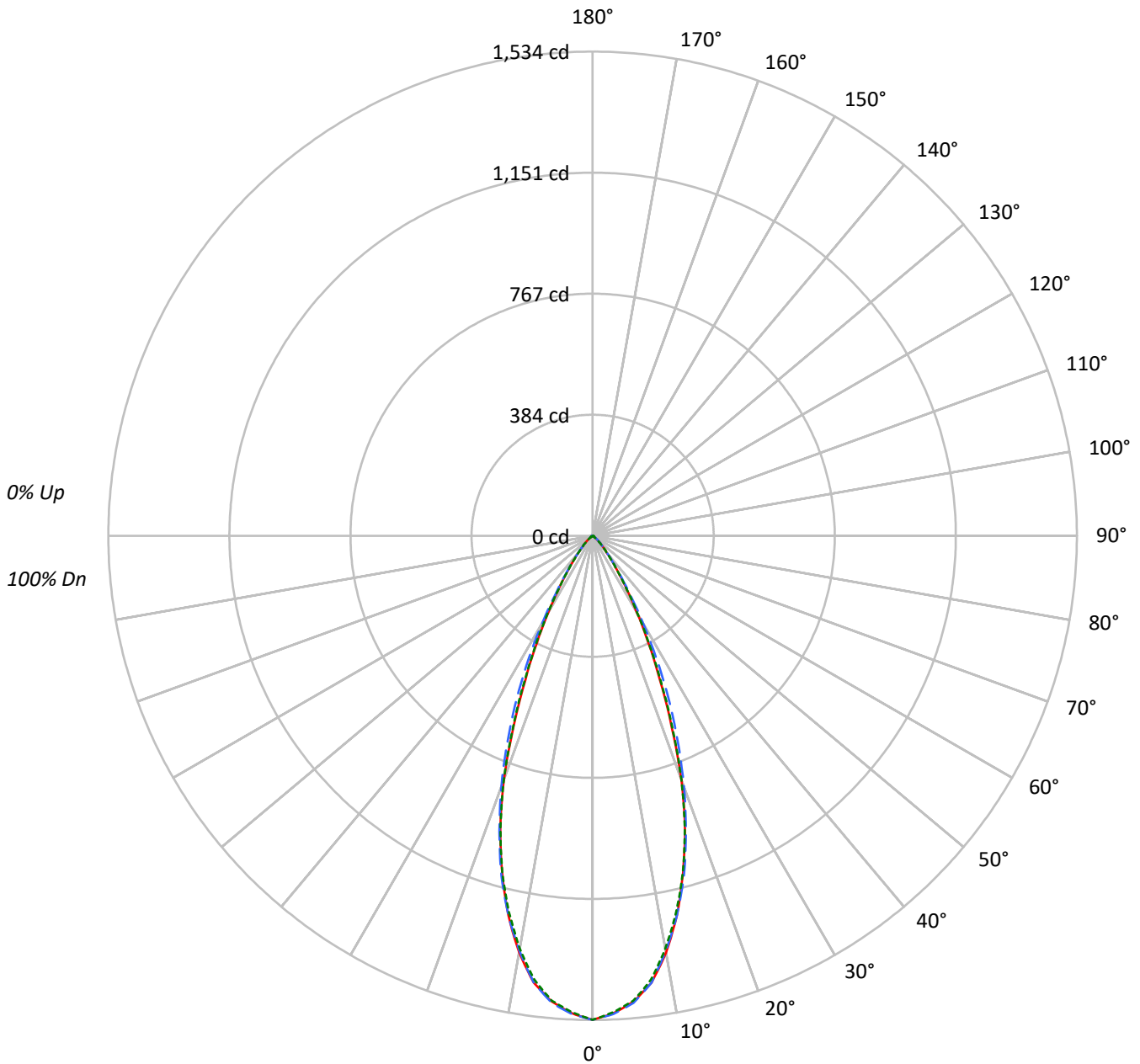
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P284034

CATALOG NUMBER: LDA2B159727D010 EU2B15WFL559727 2LBALPINSQ1MB

Luminous Intensity Polar Plot





TEST NUMBER: P284034

CATALOG NUMBER: LDA2B159727D010 EU2B15WFL559727 2LBALPINSQ1MB

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°	756620	756620	756620
5°	733906	735639	732321
10°	671754	669099	665041
15°	565060	570270	564141
20°	432095	443593	431413
25°	274414	309362	279749
30°	159569	180191	162360
35°	84380	89740	84621
40°	44503	46564	44503
45°	24909	25816	25188
50°	11667	14737	11667
55°	4215	8085	4645
60°	4835	4835	4835
65°	5253	5720	5253
70°	6491	5770	6491
75°	5909	5909	5909
80°	6251	5114	6251
85°	5095	5095	5095



TEST NUMBER: P284034

CATALOG NUMBER: LDA2B159727D010 EU2B15WFL559727 2LBALPINSQ1MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.9	16.5
10°-20°	304.8	36.6
20°-30°	246.2	29.6
30°-40°	97.3	11.7
40°-50°	29.9	3.6
50°-60°	7.7	0.9
60°-70°	4.7	0.6
70°-80°	3.4	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°	687.9	82.7
0°-40°	785.2	94.4
0°-60°	822.7	98.9
0°-90°	831.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	831.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1534	1534	1534	1534	1534	
5°	1482	1484	1485	1482	1479	137
15°	1106	1109	1116	1112	1104	304
25°	504	528	568	538	514	235
35°	140	144	149	144	140	94
45°	36	36	37	37	36	29
55°	5	7	9	7	5	6
65°	4	5	5	5	4	5
75°	3	3	3	3	3	3
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



TEST NUMBER: P284034

CATALOG NUMBER: LDA2B159727D010 EU2B15WFL559727 2LBALPINSQ1MB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1533.6	1533.6	1533.6	1533.6	1533.6
2.5°	1514.4	1515.3	1516.7	1514.9	1510.4
5°	1481.9	1484.5	1485.4	1482.3	1478.7
7.5°	1428.3	1425.2	1427.9	1422.5	1418.1
10°	1340.9	1336.9	1335.6	1327.5	1327.5
12.5°	1233.0	1231.6	1232.5	1228.5	1222.3
15°	1106.3	1109.4	1116.5	1112.1	1104.5
17.5°	972.0	976.5	982.7	981.4	971.1
20°	823.0	835.9	844.9	836.4	821.7
22.5°	653.5	681.2	703.9	686.1	662.0
25°	504.1	528.2	568.3	538.0	513.9
27.5°	382.3	399.7	436.3	406.4	389.9
30°	280.1	290.8	316.3	296.6	285.0
32.5°	200.3	207.9	218.6	207.0	201.2
35°	140.1	144.1	149.0	144.5	140.5
37.5°	98.6	99.9	103.5	99.9	98.1
40°	69.1	69.6	72.3	70.0	69.1
42.5°	50.0	50.0	51.3	50.4	50.0
45°	35.7	36.1	37.0	36.6	36.1
47.5°	25.4	26.3	26.3	26.8	25.0
50°	15.2	18.7	19.2	18.7	15.2
52.5°	8.0	11.2	13.8	11.2	8.0
55°	4.9	6.7	9.4	6.7	5.4
57.5°	4.9	4.9	6.2	5.4	4.9
60°	4.9	4.9	4.9	4.9	4.9
62.5°	4.9	4.9	4.9	4.9	4.9
65°	4.5	4.9	4.9	4.9	4.5
67.5°	4.5	4.5	4.5	4.5	4.5
70°	4.5	4.5	4.0	4.5	4.5
72.5°	4.0	4.0	3.6	4.0	4.0
75°	3.1	3.1	3.1	3.1	3.1
77.5°	2.7	2.7	2.7	2.7	2.7
80°	2.2	2.2	1.8	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



Report Generated By E9808895 / USPTCWHP6082093





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







(END OF REPORT)