

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: P284014

Luminaire Tested: **LDA2B159035D010 EU2B15WFL559035 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P284014
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: LDA2B159035D010 EU2B15WFL559035 2LBAPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 1500 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: 1099.5 lumens
Efficiency: N/A
Efficacy: 78.0 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

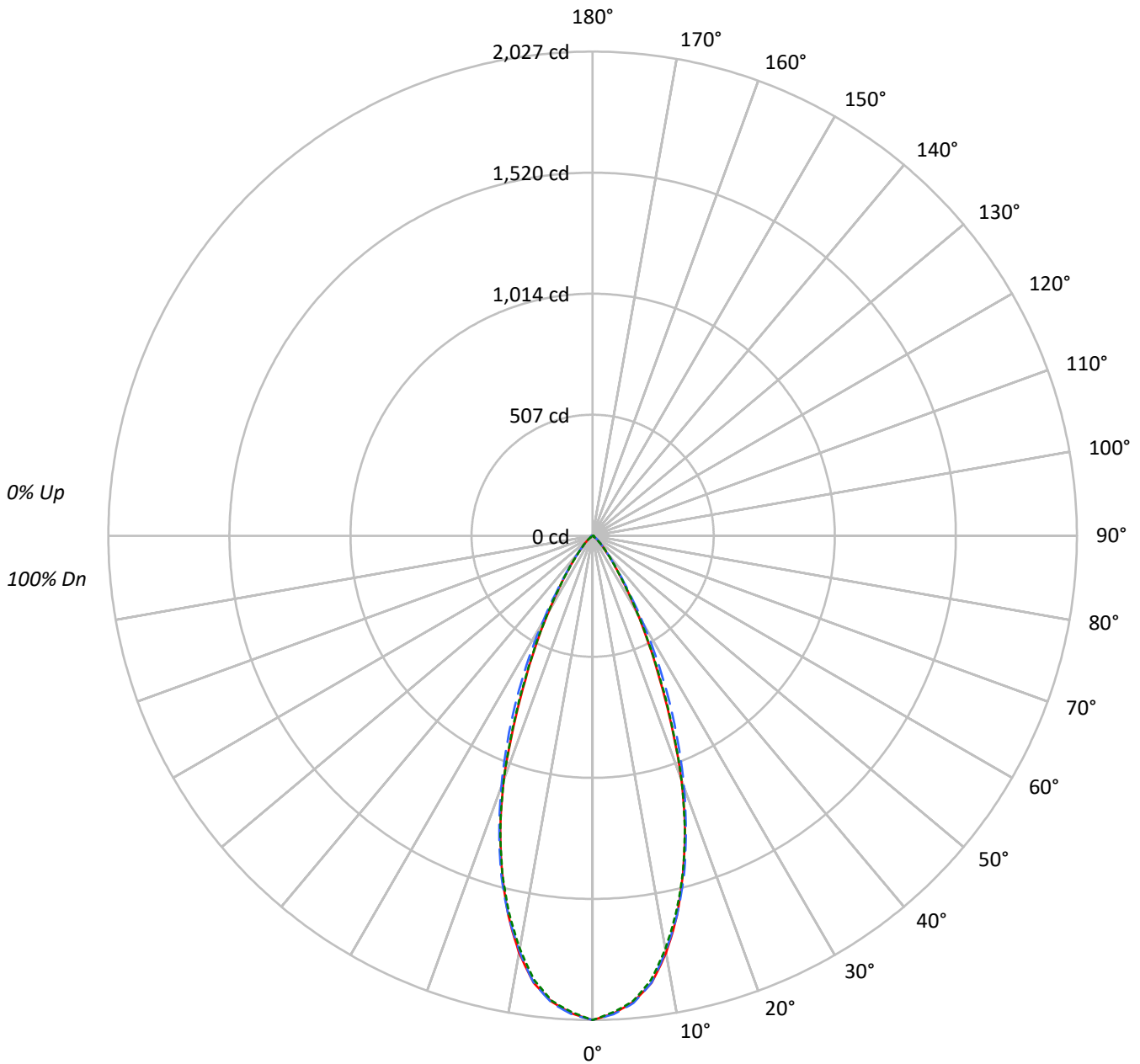
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1000143	1000143	1000143
5°	970089	972416	968058
10°	887974	884417	879107
15°	746893	753839	745718
20°	571174	586348	570229
25°	362710	408927	369787
30°	210954	238185	214657
35°	111483	118590	111844
40°	58865	61506	58865
45°	32932	34118	33351
50°	15351	19495	15351
55°	5591	10666	6107
60°	6414	6414	6414
65°	6888	7588	6888
70°	8511	7645	8511
75°	7815	7815	7815
80°	8239	6819	8239
85°	6793	6793	6793



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.0	16.5
10°-20°	402.9	36.6
20°-30°	325.4	29.6
30°-40°	128.6	11.7
40°-50°	39.5	3.6
50°-60°	10.2	0.9
60°-70°	6.2	0.6
70°-80°	4.5	0.4
80°-90°	1.4	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°	909.3	82.7
0°-40°	1037.9	94.4
0°-60°	1087.5	98.9
0°-90°	1099.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1099.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2027	2027	2027	2027	2027	
5°	1959	1962	1964	1959	1955	181
15°	1462	1466	1476	1470	1460	402
25°	666	698	751	711	679	310
35°	185	190	197	191	186	124
45°	47	48	49	48	48	38
55°	6	9	12	9	7	8
65°	6	6	6	6	6	6
75°	4	4	4	4	4	5
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°	2027.2	2027.2	2027.2	2027.2	2027.2
2.5°	2001.8	2003.0	2004.8	2002.4	1996.5
5°	1958.8	1962.3	1963.5	1959.4	1954.7
7.5°	1888.0	1883.9	1887.5	1880.4	1874.5
10°	1772.5	1767.2	1765.4	1754.8	1754.8
12.5°	1629.8	1628.0	1629.2	1623.9	1615.6
15°	1462.3	1466.4	1475.9	1470.0	1460.0
17.5°	1284.8	1290.7	1299.0	1297.2	1283.7
20°	1087.9	1105.0	1116.8	1105.6	1086.1
22.5°	863.8	900.4	930.5	906.9	875.0
25°	666.3	698.1	751.2	711.1	679.3
27.5°	505.3	528.3	576.7	537.2	515.3
30°	370.3	384.4	418.1	392.1	376.8
32.5°	264.8	274.8	288.9	273.6	265.9
35°	185.1	190.5	196.9	191.0	185.7
37.5°	130.3	132.1	136.8	132.1	129.7
40°	91.4	92.0	95.5	92.6	91.4
42.5°	66.0	66.0	67.8	66.6	66.0
45°	47.2	47.8	48.9	48.4	47.8
47.5°	33.6	34.8	34.8	35.4	33.0
50°	20.0	24.8	25.4	24.8	20.0
52.5°	10.6	14.7	18.3	14.7	10.6
55°	6.5	8.8	12.4	8.8	7.1
57.5°	6.5	6.5	8.3	7.1	6.5
60°	6.5	6.5	6.5	6.5	6.5
62.5°	6.5	6.5	6.5	6.5	6.5
65°	5.9	6.5	6.5	6.5	5.9
67.5°	5.9	5.9	5.9	5.9	5.9
70°	5.9	5.9	5.3	5.9	5.9
72.5°	5.3	5.3	4.7	5.3	5.3
75°	4.1	4.1	4.1	4.1	4.1
77.5°	3.5	3.5	3.5	3.5	3.5
80°	2.9	2.9	2.4	2.9	2.9
82.5°	1.8	1.8	1.8	1.8	1.8
85°	1.2	1.2	1.2	1.2	1.2
87.5°	0.6	0.6	0.6	0.6	0.6
90°	0.0	0.0	0.0	0.0	0.0



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







(END OF REPORT)