

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: P284020

Luminaire Tested: **LDA2B159040D010 EU2B15WFL559040 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P284020
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: LDA2B159040D010 EU2B15WFL559040 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: 1122.8 lumens
Efficiency: N/A
Efficacy: 79.6 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

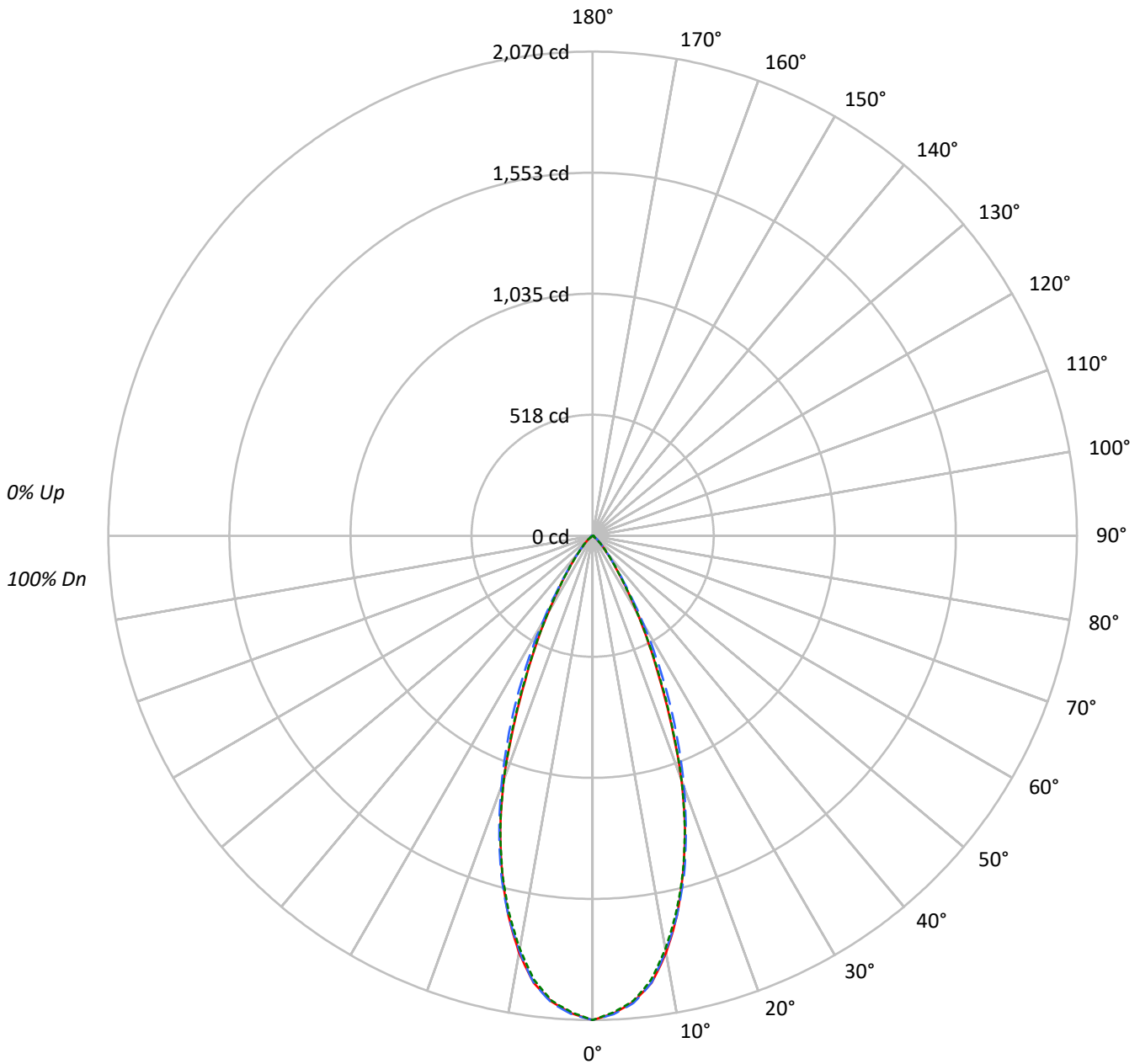
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1021407	1021407	1021407
5°	990691	993118	988611
10°	906861	903204	897793
15°	762778	769877	761552
20°	583302	598791	582357
25°	370440	417636	377626
30°	215455	243199	219215
35°	113892	121119	114253
40°	60089	62858	60089
45°	33630	34886	34049
50°	15734	19879	15734
55°	5677	10838	6193
60°	6512	6512	6512
65°	7004	7705	7004
70°	8655	7789	8655
75°	8006	8006	8006
80°	8523	6819	8523
85°	6793	6793	6793



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.8	16.5
10°-20°	411.5	36.6
20°-30°	332.3	29.6
30°-40°	131.3	11.7
40°-50°	40.3	3.6
50°-60°	10.4	0.9
60°-70°	6.3	0.6
70°-80°	4.6	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°	928.6	82.7
0°-40°	1059.9	94.4
0°-60°	1110.6	98.9
0°-90°	1122.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1122.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2070	2070	2070	2070	2070	
5°	2000	2004	2005	2001	1996	185
15°	1493	1498	1507	1501	1491	410
25°	680	713	767	726	694	317
35°	189	194	201	195	190	127
45°	48	49	50	49	49	39
55°	7	9	13	9	7	8
65°	6	7	7	7	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°	2070.3	2070.3	2070.3	2070.3	2070.3
2.5°	2044.4	2045.6	2047.4	2045.0	2039.0
5°	2000.4	2004.1	2005.3	2001.0	1996.2
7.5°	1928.2	1924.0	1927.6	1920.4	1914.3
10°	1810.2	1804.7	1802.9	1792.1	1792.1
12.5°	1664.4	1662.6	1663.8	1658.4	1650.0
15°	1493.4	1497.6	1507.3	1501.2	1491.0
17.5°	1312.1	1318.2	1326.6	1324.8	1310.9
20°	1111.0	1128.5	1140.5	1129.1	1109.2
22.5°	882.2	919.5	950.2	926.2	893.6
25°	680.5	713.0	767.2	726.2	693.7
27.5°	516.1	539.6	588.9	548.6	526.3
30°	378.2	392.6	426.9	400.4	384.8
32.5°	270.4	280.6	295.1	279.4	271.6
35°	189.1	194.5	201.1	195.1	189.7
37.5°	133.1	134.9	139.7	134.9	132.5
40°	93.3	93.9	97.6	94.5	93.3
42.5°	67.4	67.4	69.3	68.0	67.4
45°	48.2	48.8	50.0	49.4	48.8
47.5°	34.3	35.5	35.5	36.1	33.7
50°	20.5	25.3	25.9	25.3	20.5
52.5°	10.8	15.1	18.7	15.1	10.8
55°	6.6	9.0	12.6	9.0	7.2
57.5°	6.6	6.6	8.4	7.2	6.6
60°	6.6	6.6	6.6	6.6	6.6
62.5°	6.6	6.6	6.6	6.6	6.6
65°	6.0	6.6	6.6	6.6	6.0
67.5°	6.0	6.0	6.0	6.0	6.0
70°	6.0	6.0	5.4	6.0	6.0
72.5°	5.4	5.4	4.8	5.4	5.4
75°	4.2	4.2	4.2	4.2	4.2
77.5°	3.6	3.6	3.6	3.6	3.6
80°	3.0	3.0	2.4	3.0	3.0
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)