

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: P284008

Luminaire Tested: **LDA2B159030D010 EU2B15WFL559030 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P284008
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: LDA2B159030D010 EU2B15WFL559030 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: 1059.1 lumens
Efficiency: N/A
Efficacy: 75.1 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

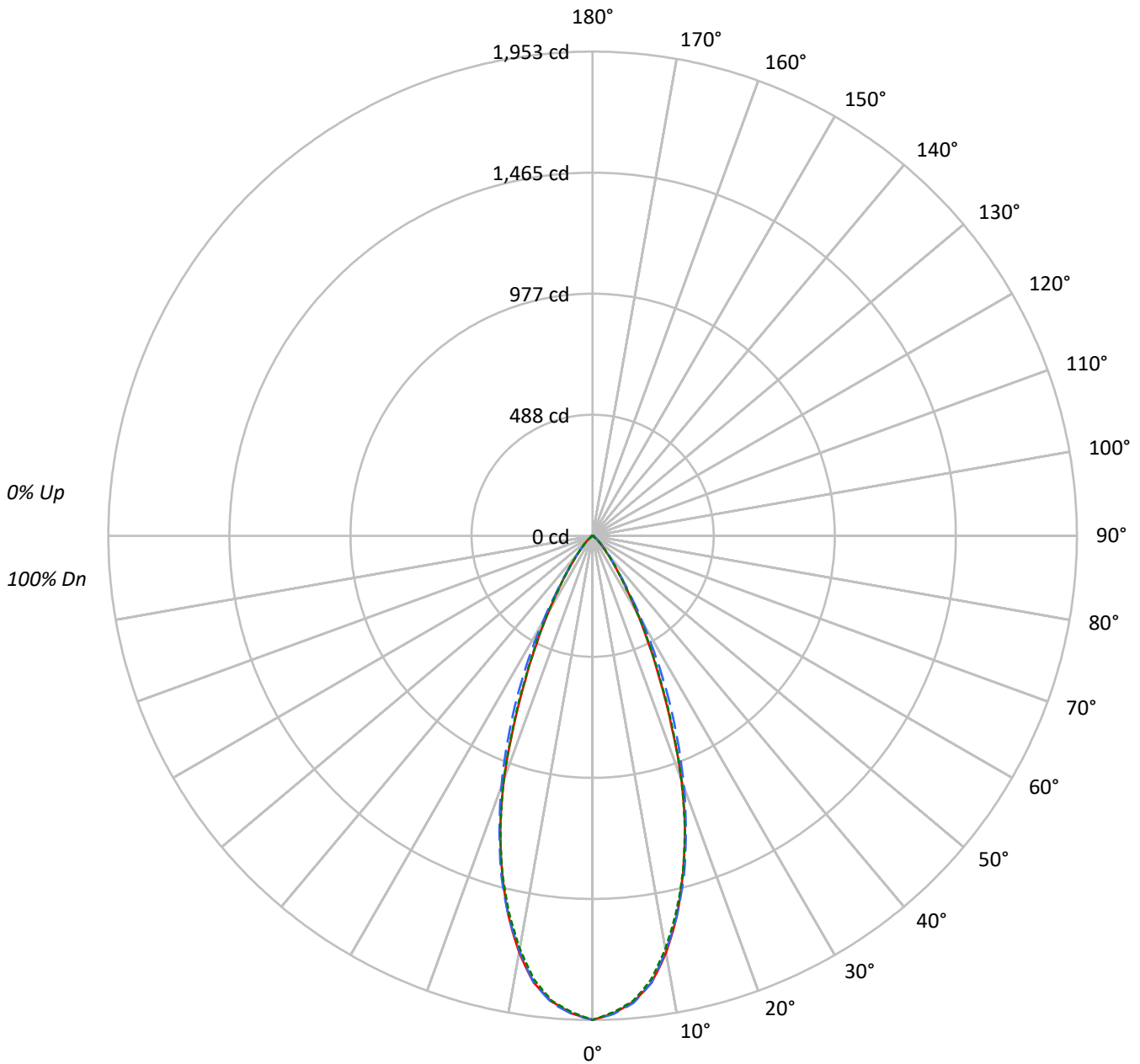
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	963388	963388	963388
5°	934431	936659	932450
10°	855311	851904	846794
15°	719465	726105	718290
20°	550173	564769	549281
25°	349373	393902	356178
30°	203207	229412	206739
35°	107387	114253	107749
40°	56675	59252	56675
45°	31676	32863	32095
50°	14813	18728	14813
55°	5333	10236	5849
60°	6118	6118	6118
65°	6654	7238	6654
70°	8222	7357	8222
75°	7625	7625	7625
80°	7955	6535	7955
85°	6227	6227	6227



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.3	16.5
10°-20°	388.1	36.6
20°-30°	313.4	29.6
30°-40°	123.9	11.7
40°-50°	38.0	3.6
50°-60°	9.8	0.9
60°-70°	5.9	0.6
70°-80°	4.3	0.4
80°-90°	1.3	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°	875.8	82.7
0°-40°	999.7	94.4
0°-60°	1047.5	98.9
0°-90°	1059.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1059.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1953	1953	1953	1953	1953	
5°	1887	1890	1891	1887	1883	175
15°	1409	1412	1422	1416	1406	387
25°	642	672	724	685	654	299
35°	178	184	190	184	179	119
45°	45	46	47	47	46	37
55°	6	8	12	8	7	8
65°	6	6	6	6	6	6
75°	4	4	4	4	4	4
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°	1952.7	1952.7	1952.7	1952.7	1952.7
2.5°	1928.2	1929.4	1931.1	1928.8	1923.1
5°	1886.8	1890.2	1891.3	1887.4	1882.8
7.5°	1818.6	1814.7	1818.1	1811.2	1805.6
10°	1707.3	1702.2	1700.5	1690.3	1690.3
12.5°	1569.9	1568.2	1569.3	1564.2	1556.2
15°	1408.6	1412.5	1421.6	1415.9	1406.3
17.5°	1237.6	1243.3	1251.2	1249.5	1236.5
20°	1047.9	1064.4	1075.7	1064.9	1046.2
22.5°	832.1	867.3	896.3	873.5	842.9
25°	641.8	672.5	723.6	685.0	654.3
27.5°	486.7	508.9	555.5	517.4	496.4
30°	356.7	370.3	402.7	377.7	362.9
32.5°	255.0	264.7	278.3	263.5	256.2
35°	178.3	183.5	189.7	184.0	178.9
37.5°	125.5	127.2	131.8	127.2	125.0
40°	88.0	88.6	92.0	89.2	88.0
42.5°	63.6	63.6	65.3	64.2	63.6
45°	45.4	46.0	47.1	46.6	46.0
47.5°	32.4	33.5	33.5	34.1	31.8
50°	19.3	23.9	24.4	23.9	19.3
52.5°	10.2	14.2	17.6	14.2	10.2
55°	6.2	8.5	11.9	8.5	6.8
57.5°	6.2	6.2	8.0	6.8	6.2
60°	6.2	6.2	6.2	6.2	6.2
62.5°	6.2	6.2	6.2	6.2	6.2
65°	5.7	6.2	6.2	6.2	5.7
67.5°	5.7	5.7	5.7	5.7	5.7
70°	5.7	5.7	5.1	5.7	5.7
72.5°	5.1	5.1	4.5	5.1	5.1
75°	4.0	4.0	4.0	4.0	4.0
77.5°	3.4	3.4	3.4	3.4	3.4
80°	2.8	2.8	2.3	2.8	2.8
82.5°	1.7	1.7	1.7	1.7	1.7
85°	1.1	1.1	1.1	1.1	1.1
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)