

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: P284007

Luminaire Tested: **LDA2B159030D010 EU2B15WFL559030 2LBAPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P284007
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 2LBAPINSQ1MB
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND
2in Adj SQ PinHole, MB

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1039.0 lumens
Efficiency: N/A
Efficacy: 73.7 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

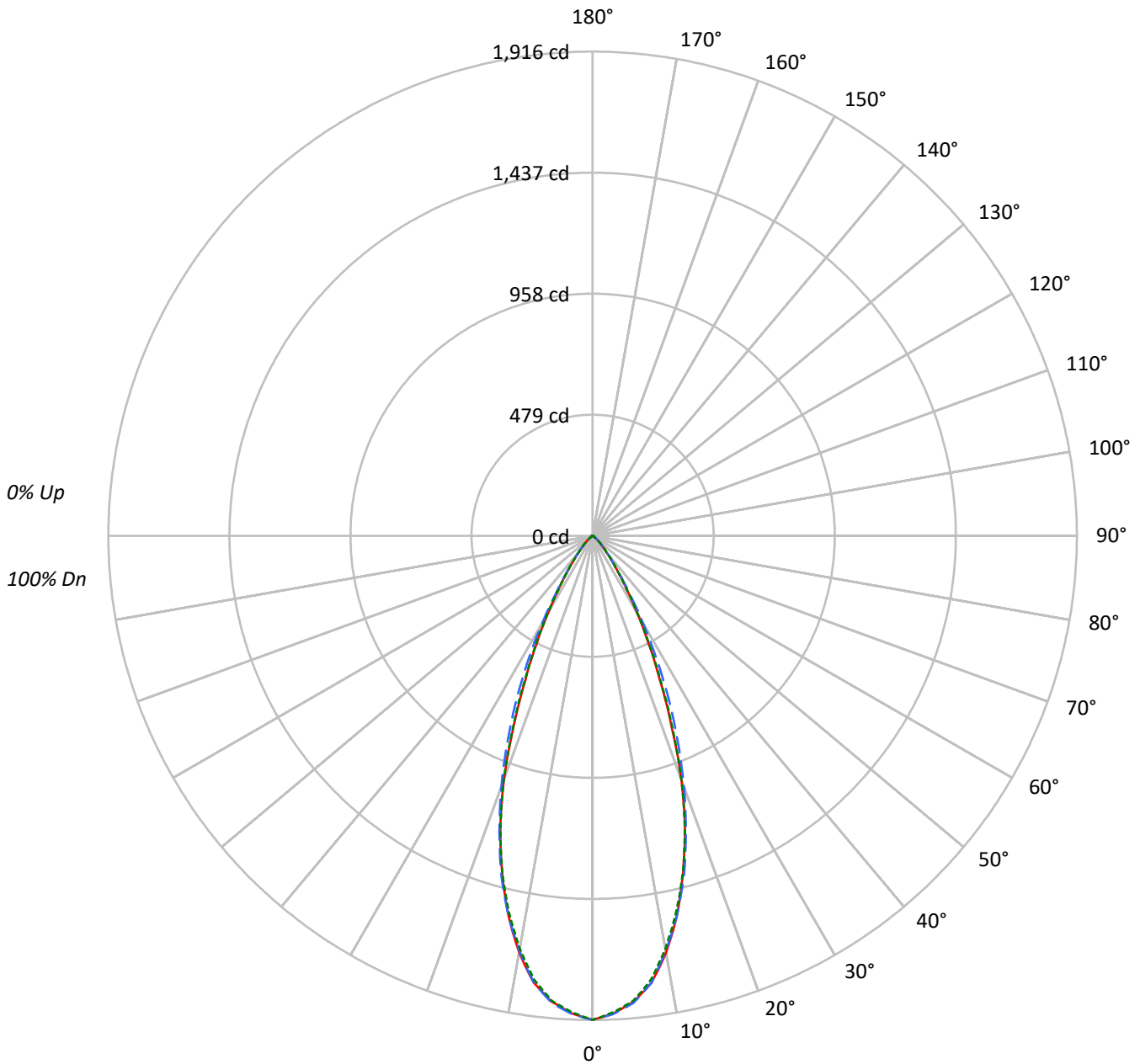
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	945133	945133	945133
5°	916701	918930	914770
10°	839129	835773	830713
15°	705827	712365	704652
20°	539725	554059	538885
25°	342732	386444	349428
30°	199333	225083	202865
35°	105400	112085	105701
40°	55645	58157	55645
45°	31118	32235	31467
50°	14506	18421	14506
55°	5247	10064	5763
60°	6019	6019	6019
65°	6537	7121	6537
70°	8078	7212	8078
75°	7434	7434	7434
80°	7955	6251	7955
85°	6227	6227	6227



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.0	16.5
10°-20°	380.7	36.6
20°-30°	307.5	29.6
30°-40°	121.5	11.7
40°-50°	37.3	3.6
50°-60°	9.6	0.9
60°-70°	5.8	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°	859.2	82.7
0°-40°	980.8	94.4
0°-60°	1027.7	98.9
0°-90°	1039.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1039.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1916	1916	1916	1916	1916	
5°	1851	1854	1856	1852	1847	171
15°	1382	1386	1395	1389	1380	380
25°	630	660	710	672	642	293
35°	175	180	186	180	176	117
45°	45	45	46	46	45	36
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°	1915.7	1915.7	1915.7	1915.7	1915.7
2.5°	1891.7	1892.8	1894.5	1892.3	1886.7
5°	1851.0	1854.4	1855.5	1851.6	1847.1
7.5°	1784.2	1780.3	1783.6	1776.9	1771.4
10°	1675.0	1669.9	1668.3	1658.2	1658.2
12.5°	1540.1	1538.4	1539.6	1534.5	1526.7
15°	1381.9	1385.8	1394.7	1389.1	1379.6
17.5°	1214.1	1219.7	1227.5	1225.9	1213.0
20°	1028.0	1044.2	1055.3	1044.8	1026.4
22.5°	816.3	850.9	879.3	857.0	826.9
25°	629.6	659.7	709.9	672.0	641.9
27.5°	477.5	499.3	544.9	507.6	487.0
30°	349.9	363.3	395.1	370.5	356.1
32.5°	250.2	259.7	273.0	258.5	251.3
35°	175.0	180.0	186.1	180.5	175.5
37.5°	123.1	124.8	129.3	124.8	122.6
40°	86.4	86.9	90.3	87.5	86.4
42.5°	62.4	62.4	64.1	63.0	62.4
45°	44.6	45.1	46.2	45.7	45.1
47.5°	31.8	32.9	32.9	33.4	31.2
50°	18.9	23.4	24.0	23.4	18.9
52.5°	10.0	13.9	17.3	13.9	10.0
55°	6.1	8.4	11.7	8.4	6.7
57.5°	6.1	6.1	7.8	6.7	6.1
60°	6.1	6.1	6.1	6.1	6.1
62.5°	6.1	6.1	6.1	6.1	6.1
65°	5.6	6.1	6.1	6.1	5.6
67.5°	5.6	5.6	5.6	5.6	5.6
70°	5.6	5.6	5.0	5.6	5.6
72.5°	5.0	5.0	4.5	5.0	5.0
75°	3.9	3.9	3.9	3.9	3.9
77.5°	3.3	3.3	3.3	3.3	3.3
80°	2.8	2.8	2.2	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)