

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: P284024

Luminaire Tested: **LDA2B159050D010 EU2B15WFL559050 2LBAPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P284024
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: LDA2B159050D010 EU2B15WFL559050 2LBAPINSQ1MW
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND
2in Adj SQ PinHole, MW

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1164.8 lumens
Efficiency: N/A
Efficacy: 82.6 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

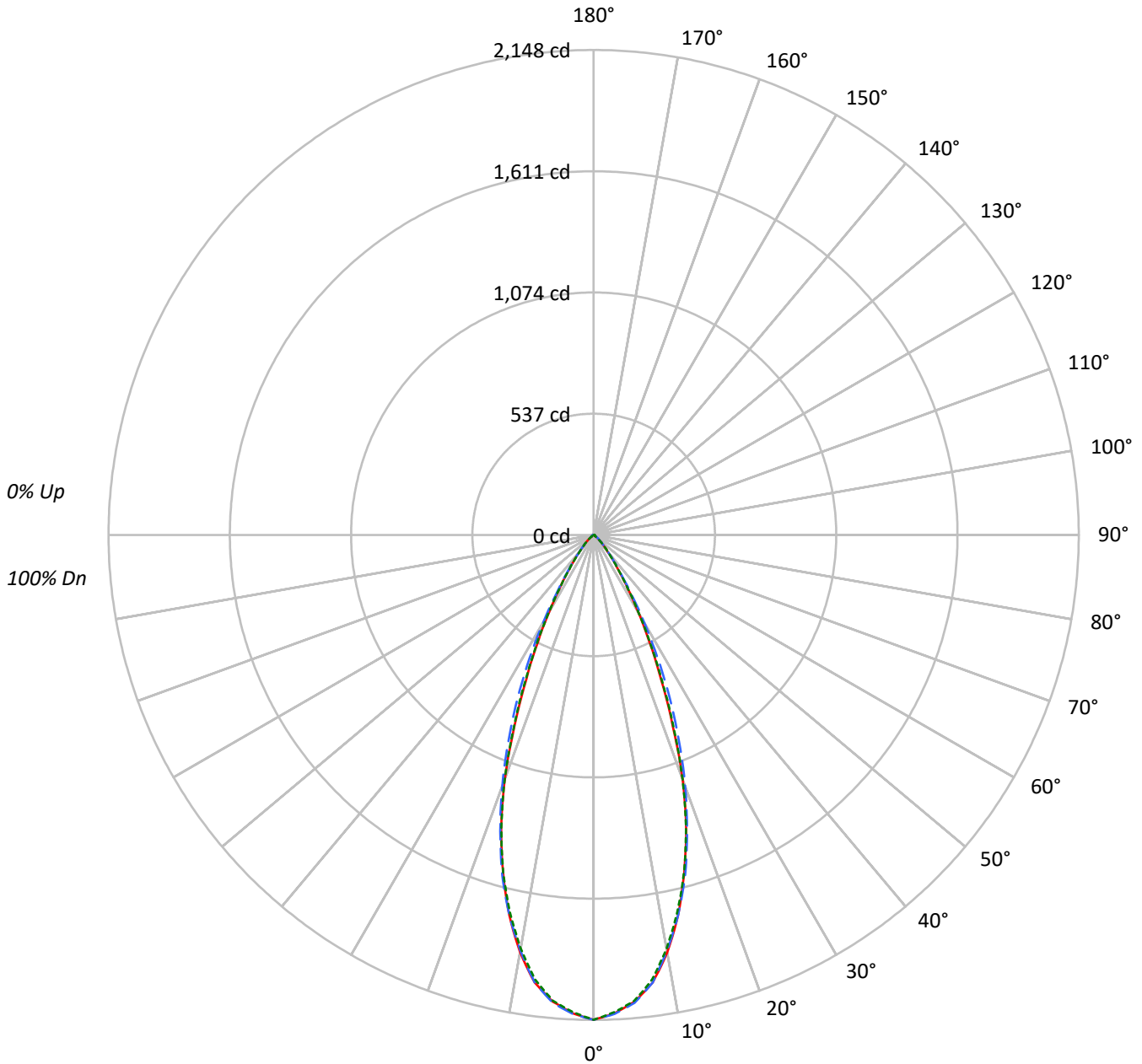
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					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°	1059593	1059593	1059593
5°	1027735	1030211	1025556
10°	940727	936969	931358
15°	791278	798633	790001
20°	605091	621209	604146
25°	384267	433205	391725
30°	223487	252314	227418
35°	118168	125636	118529
40°	62343	65177	62343
45°	34886	36142	35305
50°	16272	20647	16272
55°	5935	11268	6451
60°	6808	6808	6808
65°	7238	8055	7238
70°	8943	8078	8943
75°	8387	8387	8387
80°	8808	7103	8808
85°	6793	6793	6793



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.7	16.5
10°-20°	426.9	36.6
20°-30°	344.7	29.6
30°-40°	136.2	11.7
40°-50°	41.8	3.6
50°-60°	10.8	0.9
60°-70°	6.5	0.6
70°-80°	4.8	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°	963.3	82.7
0°-40°	1099.5	94.4
0°-60°	1152.2	98.9
0°-90°	1164.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1164.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2148	2148	2148	2148	2148	
5°	2075	2079	2080	2076	2071	192
15°	1549	1554	1564	1557	1547	425
25°	706	740	796	753	720	329
35°	196	202	209	202	197	131
45°	50	51	52	51	51	41
55°	7	9	13	9	8	9
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°	2147.7	2147.7	2147.7	2147.7	2147.7
2.5°	2120.8	2122.1	2123.9	2121.4	2115.2
5°	2075.2	2078.9	2080.2	2075.8	2070.8
7.5°	2000.2	1995.9	1999.6	1992.1	1985.9
10°	1877.8	1872.2	1870.3	1859.1	1859.1
12.5°	1726.6	1724.8	1726.0	1720.4	1711.6
15°	1549.2	1553.6	1563.6	1557.3	1546.7
17.5°	1361.2	1367.4	1376.2	1374.3	1359.9
20°	1152.5	1170.7	1183.2	1171.3	1150.7
22.5°	915.2	953.9	985.8	960.8	927.0
25°	705.9	739.6	795.8	753.4	719.6
27.5°	535.4	559.7	610.9	569.1	546.0
30°	392.3	407.3	442.9	415.4	399.2
32.5°	280.5	291.1	306.1	289.9	281.7
35°	196.2	201.8	208.6	202.4	196.8
37.5°	138.1	139.9	144.9	139.9	137.4
40°	96.8	97.5	101.2	98.1	96.8
42.5°	70.0	70.0	71.8	70.6	70.0
45°	50.0	50.6	51.8	51.2	50.6
47.5°	35.6	36.9	36.9	37.5	35.0
50°	21.2	26.2	26.9	26.2	21.2
52.5°	11.2	15.6	19.4	15.6	11.2
55°	6.9	9.4	13.1	9.4	7.5
57.5°	6.9	6.9	8.7	7.5	6.9
60°	6.9	6.9	6.9	6.9	6.9
62.5°	6.9	6.9	6.9	6.9	6.9
65°	6.2	6.9	6.9	6.9	6.2
67.5°	6.2	6.2	6.2	6.2	6.2
70°	6.2	6.2	5.6	6.2	6.2
72.5°	5.6	5.6	5.0	5.6	5.6
75°	4.4	4.4	4.4	4.4	4.4
77.5°	3.7	3.7	3.7	3.7	3.7
80°	3.1	3.1	2.5	3.1	3.1
82.5°	1.9	1.9	1.9	1.9	1.9
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)