

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: P284026

Luminaire Tested: **LDA2B159050D010 EU2B15WFL559050 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P284026  
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 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: 1153.6 lumens  
Efficiency: N/A  
Efficacy: 81.8 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

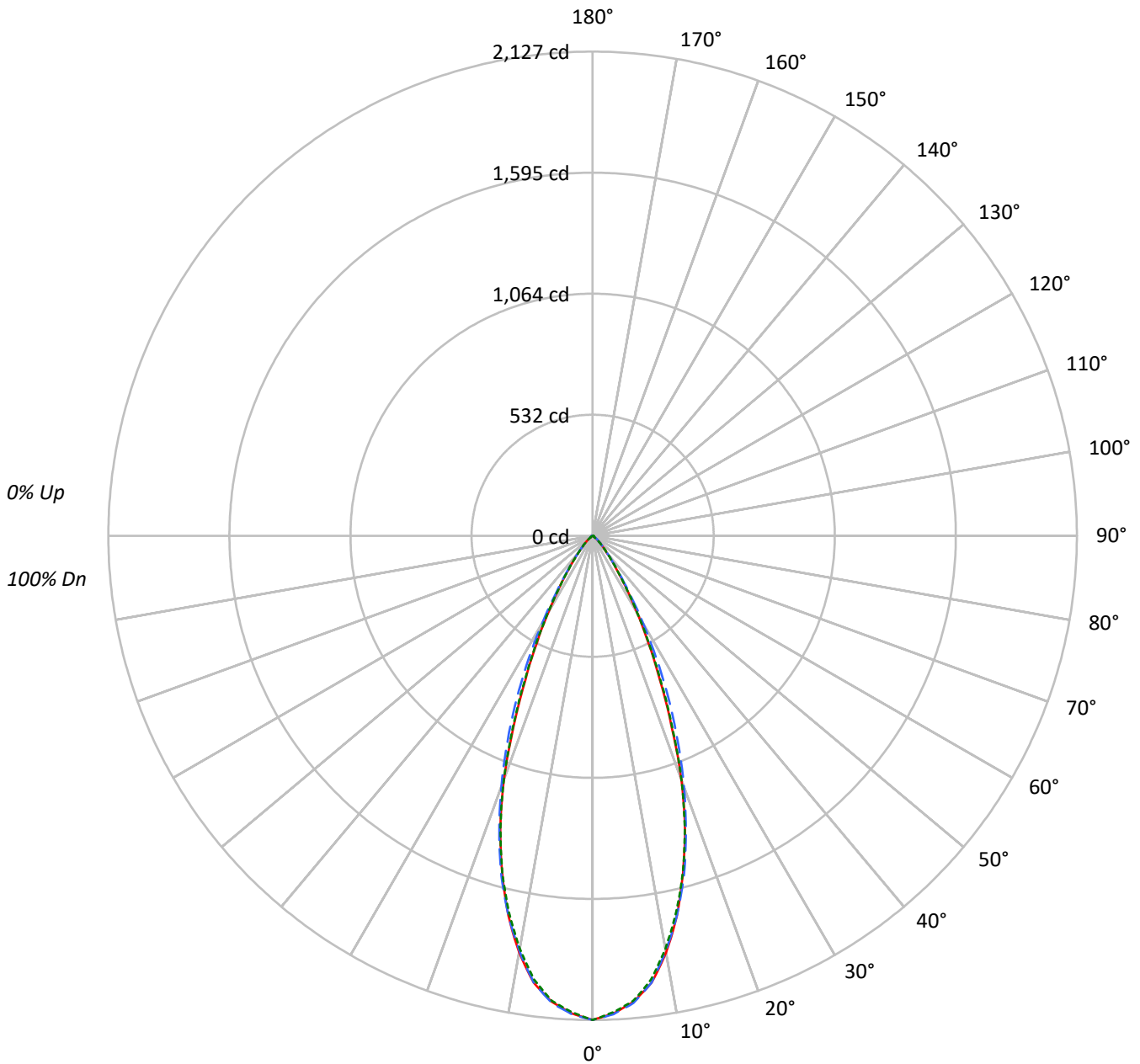
Input Watts (W): 14.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1049331	1049331	1049331
5°	1017830	1020257	1015651
10°	931659	927952	922341
15°	783668	790921	782391
20°	599263	615171	598318
25°	380565	429068	387969
30°	221323	249864	225197
35°	117024	124432	117385
40°	61763	64533	61763
45°	34537	35793	34956
50°	16118	20416	16118
55°	5849	11182	6365
60°	6710	6710	6710
65°	7238	7938	7238
70°	8943	8078	8943
75°	8197	8197	8197
80°	8808	7103	8808
85°	6793	6793	6793



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	189.9	16.5
10°-20°	422.7	36.6
20°-30°	341.4	29.6
30°-40°	134.9	11.7
40°-50°	41.4	3.6
50°-60°	10.7	0.9
60°-70°	6.5	0.6
70°-80°	4.7	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°	954.0	82.7
0°-40°	1088.9	94.4
0°-60°	1141.0	98.9
0°-90°	1153.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1153.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2127	2127	2127	2127	2127	
5°	2055	2059	2060	2056	2051	190
15°	1534	1539	1548	1542	1532	421
25°	699	732	788	746	713	325
35°	194	200	207	200	195	130
45°	50	50	51	51	50	40
55°	7	9	13	9	7	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°	2126.9	2126.9	2126.9	2126.9	2126.9
2.5°	2100.3	2101.6	2103.4	2101.0	2094.8
5°	2055.2	2058.9	2060.1	2055.8	2050.8
7.5°	1980.9	1976.6	1980.3	1972.9	1966.7
10°	1859.7	1854.1	1852.3	1841.1	1841.1
12.5°	1710.0	1708.1	1709.3	1703.8	1695.1
15°	1534.3	1538.6	1548.5	1542.3	1531.8
17.5°	1348.0	1354.2	1362.9	1361.0	1346.8
20°	1141.4	1159.4	1171.7	1160.0	1139.6
22.5°	906.3	944.7	976.2	951.5	918.1
25°	699.1	732.5	788.2	746.1	712.7
27.5°	530.2	554.3	605.0	563.6	540.7
30°	388.5	403.4	438.6	411.4	395.3
32.5°	277.8	288.3	303.1	287.1	279.0
35°	194.3	199.8	206.6	200.4	194.9
37.5°	136.7	138.6	143.5	138.6	136.1
40°	95.9	96.5	100.2	97.1	95.9
42.5°	69.3	69.3	71.1	69.9	69.3
45°	49.5	50.1	51.3	50.7	50.1
47.5°	35.3	36.5	36.5	37.1	34.6
50°	21.0	26.0	26.6	26.0	21.0
52.5°	11.1	15.5	19.2	15.5	11.1
55°	6.8	9.3	13.0	9.3	7.4
57.5°	6.8	6.8	8.7	7.4	6.8
60°	6.8	6.8	6.8	6.8	6.8
62.5°	6.8	6.8	6.8	6.8	6.8
65°	6.2	6.8	6.8	6.8	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	4.9	5.6	5.6
75°	4.3	4.3	4.3	4.3	4.3
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)