

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: P284006

Luminaire Tested: **LDA2B159030D010 EU2B15WFL559030 2LBAPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P284006
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 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: 1069.4 lumens
Efficiency: N/A
Efficacy: 75.8 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

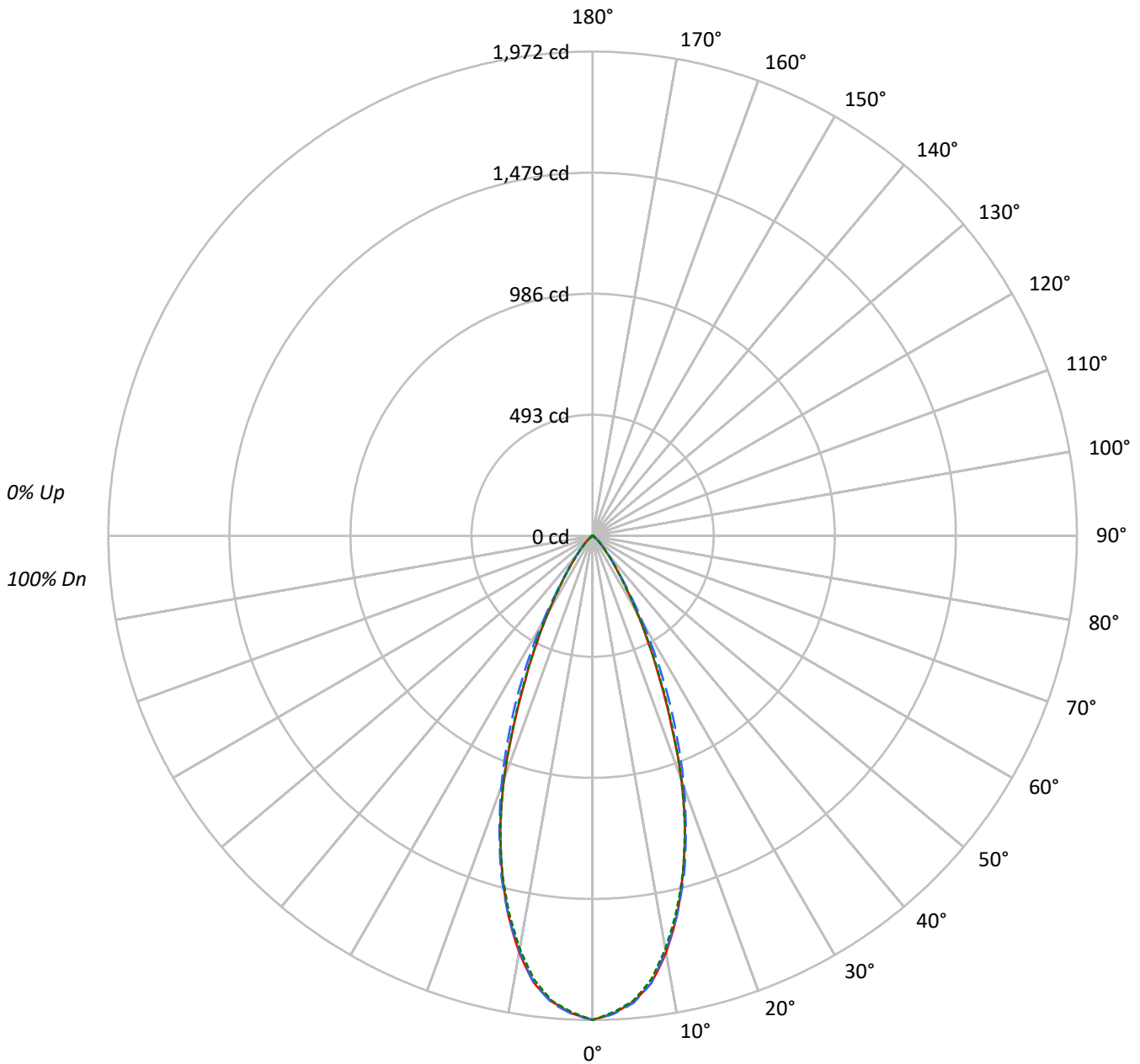
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	972761	972761	972761
5°	943543	945821	941562
10°	863627	860220	855010
15°	726462	733204	725287
20°	555529	570282	554636
25°	352803	397713	359662
30°	205201	231634	208790
35°	108471	115337	108833
40°	57255	59831	57255
45°	32025	33211	32444
50°	14967	18958	14967
55°	5419	10322	5935
60°	6216	6216	6216
65°	6654	7355	6654
70°	8222	7501	8222
75°	7625	7625	7625
80°	8239	6535	8239
85°	6227	6227	6227



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.0	16.5
10°-20°	391.9	36.6
20°-30°	316.5	29.6
30°-40°	125.1	11.7
40°-50°	38.4	3.6
50°-60°	9.9	0.9
60°-70°	6.0	0.6
70°-80°	4.4	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°	884.4	82.7
0°-40°	1009.4	94.4
0°-60°	1057.7	98.9
0°-90°	1069.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1069.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1972	1972	1972	1972	1972	
5°	1905	1909	1910	1906	1901	176
15°	1422	1426	1436	1430	1420	391
25°	648	679	731	692	661	302
35°	180	185	192	186	181	121
45°	46	46	48	47	46	37
55°	6	9	12	9	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°	1971.7	1971.7	1971.7	1971.7	1971.7
2.5°	1947.0	1948.2	1949.9	1947.6	1941.9
5°	1905.2	1908.6	1909.8	1905.7	1901.2
7.5°	1836.4	1832.3	1835.8	1828.9	1823.2
10°	1723.9	1718.8	1717.1	1706.7	1706.7
12.5°	1585.2	1583.4	1584.6	1579.4	1571.4
15°	1422.3	1426.3	1435.5	1429.7	1420.0
17.5°	1249.7	1255.4	1263.4	1261.7	1248.5
20°	1058.1	1074.7	1086.2	1075.3	1056.4
22.5°	840.2	875.7	905.0	882.0	851.1
25°	648.1	679.0	730.6	691.6	660.7
27.5°	491.5	513.9	560.9	522.5	501.2
30°	360.2	373.9	406.6	381.4	366.5
32.5°	257.5	267.3	281.0	266.1	258.6
35°	180.1	185.2	191.5	185.8	180.7
37.5°	126.7	128.5	133.1	128.5	126.2
40°	88.9	89.5	92.9	90.0	88.9
42.5°	64.2	64.2	66.0	64.8	64.2
45°	45.9	46.5	47.6	47.0	46.5
47.5°	32.7	33.8	33.8	34.4	32.1
50°	19.5	24.1	24.7	24.1	19.5
52.5°	10.3	14.3	17.8	14.3	10.3
55°	6.3	8.6	12.0	8.6	6.9
57.5°	6.3	6.3	8.0	6.9	6.3
60°	6.3	6.3	6.3	6.3	6.3
62.5°	6.3	6.3	6.3	6.3	6.3
65°	5.7	6.3	6.3	6.3	5.7
67.5°	5.7	5.7	5.7	5.7	5.7
70°	5.7	5.7	5.2	5.7	5.7
72.5°	5.2	5.2	4.6	5.2	5.2
75°	4.0	4.0	4.0	4.0	4.0
77.5°	3.4	3.4	3.4	3.4	3.4
80°	2.9	2.9	2.3	2.9	2.9
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)