

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: P284029

Luminaire Tested: **LDA2B159050D010 EU2B15WFL559050 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P284029
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 2LBALPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND
2in Adj SQ Pinhole w-lens, MMS

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1068.7 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

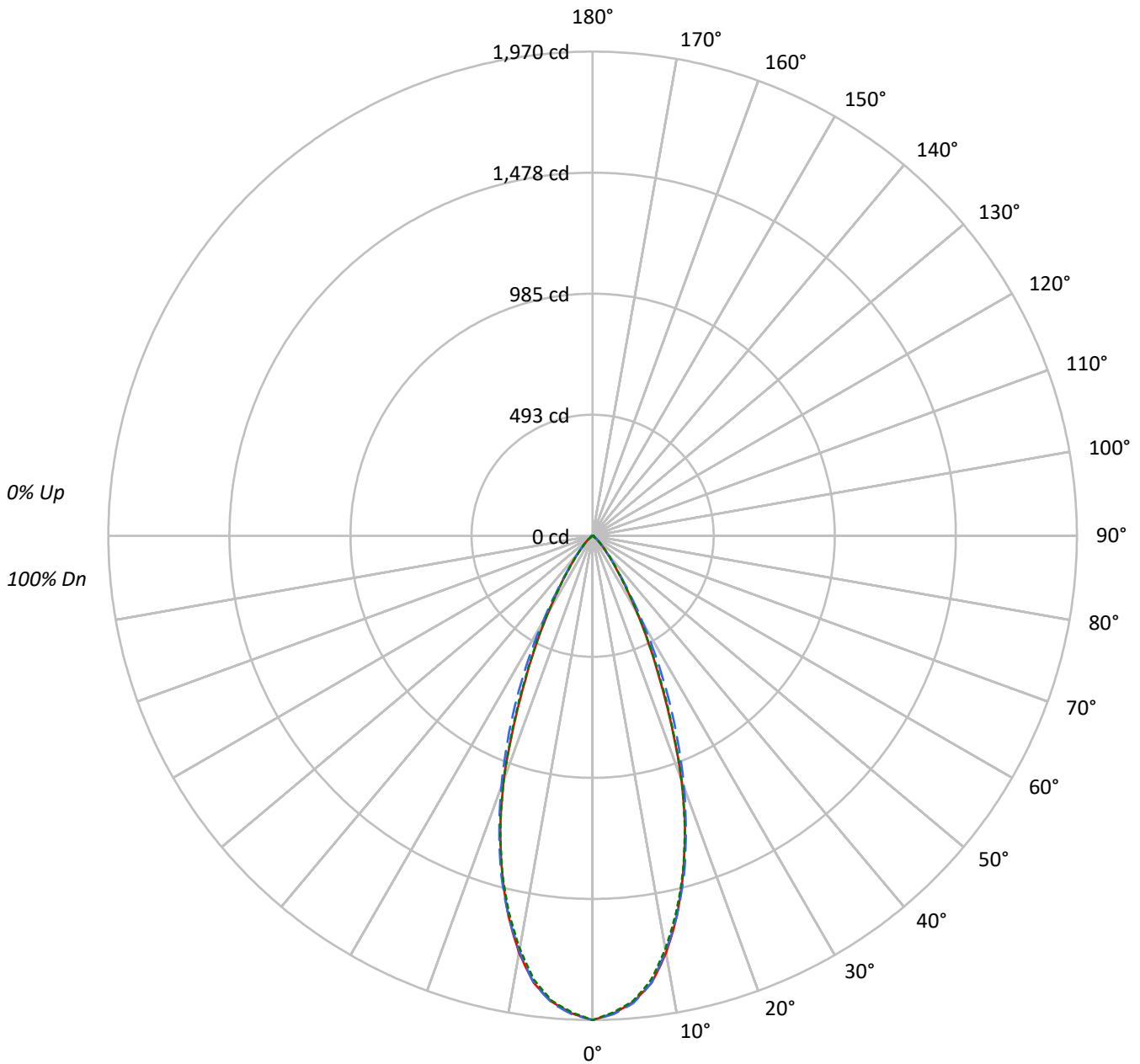
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	100	100	100		
	1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94	94	94	94	94	94		
	2	109	104	101	98	107	103	99	96	100	97	94	97	94	92	94	92	90	89	94	92	90	89	89		
	3	104	98	94	90	102	97	93	89	94	91	88	92	89	87	90	87	85	84	90	87	85	84	84		
	4	100	93	88	84	98	92	87	83	90	86	82	88	84	81	86	83	81	79	86	83	81	79	79		
	5	95	88	82	79	94	87	82	78	85	81	78	84	80	77	82	79	76	75	82	79	76	75	75		
	6	91	83	78	74	90	82	77	74	81	77	73	80	76	73	78	75	72	71	78	75	72	71	71		
	7	87	79	74	70	86	78	73	70	77	73	69	76	72	69	75	71	69	67	76	72	69	67	67		
	8	84	75	70	66	83	75	70	66	74	69	66	73	69	66	72	68	65	64	72	68	65	64	64		
	9	81	72	67	63	80	71	66	63	71	66	63	70	66	63	69	65	62	61	69	65	62	61	61		
	10	77	69	64	60	76	68	63	60	68	63	60	67	63	60	66	62	60	58	66	62	60	58	58		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	972071	972071	972071
5°	942850	945128	940869
10°	863026	859619	854459
15°	725951	732693	724777
20°	555161	569914	554269
25°	352530	397441	359389
30°	205030	231463	208619
35°	108411	115277	108712
40°	57191	59767	57191
45°	31956	33211	32374
50°	14967	18881	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°	175.9	16.5
10°-20°	391.6	36.6
20°-30°	316.3	29.6
30°-40°	125.0	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°	883.8	82.7
0°-40°	1008.8	94.4
0°-60°	1057.0	98.9
0°-90°	1068.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1068.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1970	1970	1970	1970	1970	
5°	1904	1907	1908	1904	1900	176
15°	1421	1425	1434	1429	1419	390
25°	648	679	730	691	660	301
35°	180	185	191	186	180	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°	1970.3	1970.3	1970.3	1970.3	1970.3
2.5°	1945.7	1946.8	1948.5	1946.3	1940.5
5°	1903.8	1907.3	1908.4	1904.4	1899.8
7.5°	1835.1	1831.1	1834.5	1827.6	1821.9
10°	1722.7	1717.6	1715.9	1705.6	1705.6
12.5°	1584.1	1582.3	1583.5	1578.3	1570.3
15°	1421.3	1425.3	1434.5	1428.7	1419.0
17.5°	1248.8	1254.5	1262.5	1260.8	1247.6
20°	1057.4	1074.0	1085.5	1074.6	1055.7
22.5°	839.6	875.1	904.4	881.4	850.5
25°	647.6	678.6	730.1	691.2	660.2
27.5°	491.1	513.5	560.5	522.1	500.9
30°	359.9	373.7	406.3	381.1	366.2
32.5°	257.3	267.1	280.8	265.9	258.5
35°	180.0	185.1	191.4	185.7	180.5
37.5°	126.7	128.4	133.0	128.4	126.1
40°	88.8	89.4	92.8	90.0	88.8
42.5°	64.2	64.2	65.9	64.8	64.2
45°	45.8	46.4	47.6	47.0	46.4
47.5°	32.7	33.8	33.8	34.4	32.1
50°	19.5	24.1	24.6	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)