

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: P284040

Luminaire Tested: **LDA2B159730D010 EU2B15WFL559730 2LBALPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P284040
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: LDA2B159730D010 EU2B15WFL559730 2LBALPINSQ1MB
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND
2in Adj SQ Pinhole w-lens, MB

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 885.2 lumens
Efficiency: N/A
Efficacy: 62.8 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

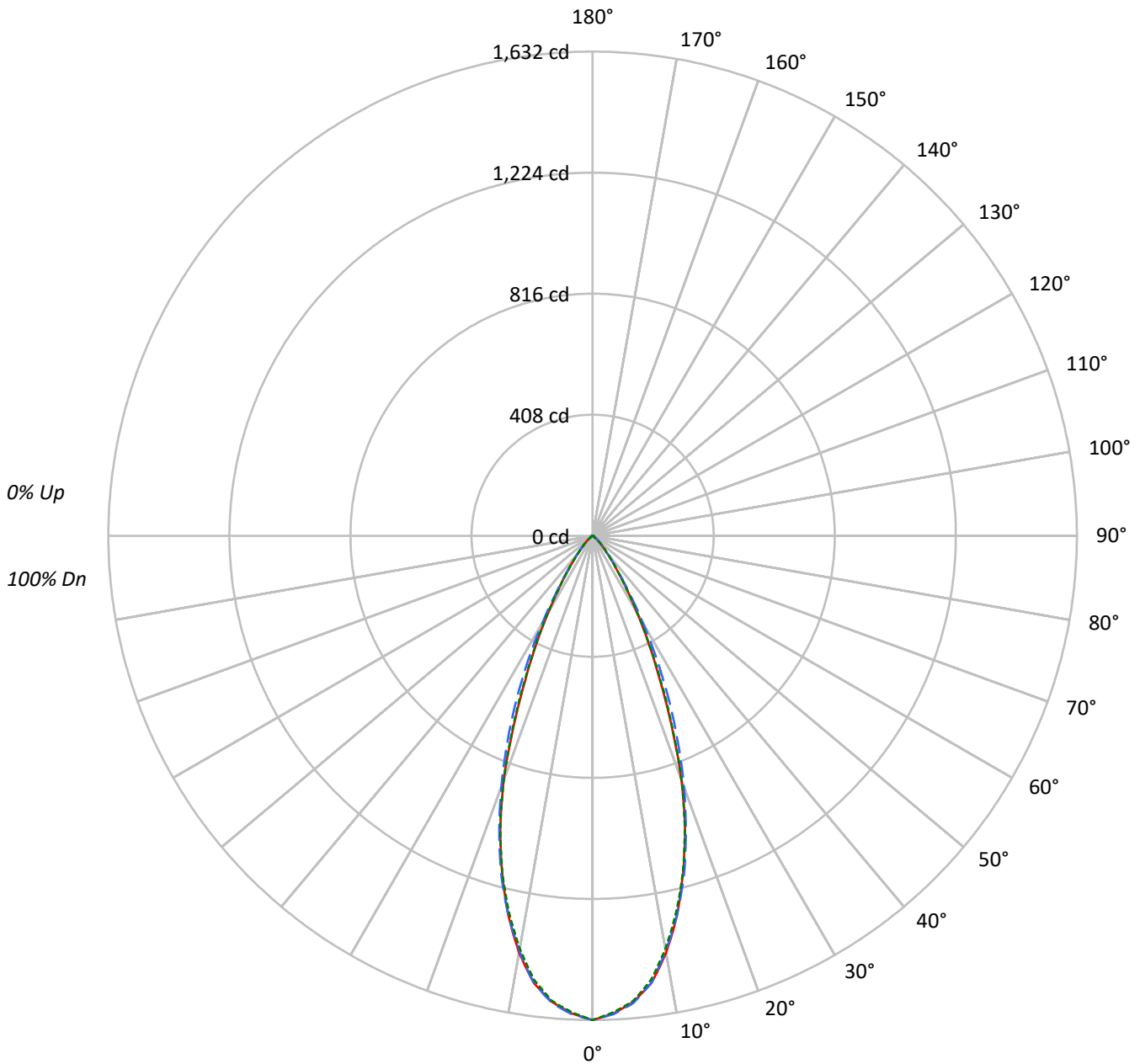
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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°	805265	805265	805265
5°	781053	782935	779419
10°	714938	712083	707824
15°	601376	606943	600405
20°	459869	472102	459134
25°	292052	329232	297713
30°	169823	191756	172842
35°	89800	95522	90041
40°	47401	49527	47401
45°	26513	27490	26862
50°	12357	15658	12357
55°	4473	8602	4903
60°	5131	5131	5131
65°	5487	6070	5487
70°	6780	6203	6780
75°	6290	6290	6290
80°	6819	5398	6819
85°	5095	5095	5095



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.7	16.5
10°-20°	324.4	36.6
20°-30°	262.0	29.6
30°-40°	103.5	11.7
40°-50°	31.8	3.6
50°-60°	8.2	0.9
60°-70°	4.9	0.6
70°-80°	3.6	0.4
80°-90°	1.1	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°	732.1	82.7
0°-40°	835.6	94.4
0°-60°	875.6	98.9
0°-90°	885.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	885.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1632	1632	1632	1632	1632	
5°	1577	1580	1581	1578	1574	146
15°	1177	1181	1188	1184	1176	323
25°	536	562	605	573	547	250
35°	149	153	159	154	150	100
45°	38	38	39	39	38	31
55°	5	7	10	7	6	7
65°	5	5	5	5	5	5
75°	3	3	3	3	3	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°	1632.2	1632.2	1632.2	1632.2	1632.2
2.5°	1611.8	1612.7	1614.2	1612.3	1607.5
5°	1577.1	1580.0	1580.9	1577.6	1573.8
7.5°	1520.2	1516.8	1519.7	1514.0	1509.2
10°	1427.1	1422.8	1421.4	1412.9	1412.9
12.5°	1312.2	1310.8	1311.7	1307.5	1300.8
15°	1177.4	1180.7	1188.3	1183.6	1175.5
17.5°	1034.5	1039.2	1045.9	1044.5	1033.5
20°	875.9	889.7	899.2	890.2	874.5
22.5°	695.5	725.0	749.2	730.2	704.5
25°	536.5	562.1	604.8	572.6	546.9
27.5°	406.9	425.4	464.3	432.5	414.9
30°	298.1	309.5	336.6	315.7	303.4
32.5°	213.2	221.2	232.6	220.3	214.1
35°	149.1	153.3	158.6	153.8	149.5
37.5°	104.9	106.3	110.1	106.3	104.4
40°	73.6	74.1	76.9	74.5	73.6
42.5°	53.2	53.2	54.6	53.6	53.2
45°	38.0	38.5	39.4	38.9	38.5
47.5°	27.1	28.0	28.0	28.5	26.6
50°	16.1	19.9	20.4	19.9	16.1
52.5°	8.5	11.9	14.7	11.9	8.5
55°	5.2	7.1	10.0	7.1	5.7
57.5°	5.2	5.2	6.6	5.7	5.2
60°	5.2	5.2	5.2	5.2	5.2
62.5°	5.2	5.2	5.2	5.2	5.2
65°	4.7	5.2	5.2	5.2	4.7
67.5°	4.7	4.7	4.7	4.7	4.7
70°	4.7	4.7	4.3	4.7	4.7
72.5°	4.3	4.3	3.8	4.3	4.3
75°	3.3	3.3	3.3	3.3	3.3
77.5°	2.8	2.8	2.8	2.8	2.8
80°	2.4	2.4	1.9	2.4	2.4
82.5°	1.4	1.4	1.4	1.4	1.4
85°	0.9	0.9	0.9	0.9	0.9
87.5°	0.5	0.5	0.5	0.5	0.5
90°	0.0	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)