

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: P284005

Luminaire Tested: **LDA2B159027D010 EU2B15WFL559027 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P284005
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: LDA2B159027D010 EU2B15WFL559027 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: 940.3 lumens
Efficiency: N/A
Efficacy: 66.7 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

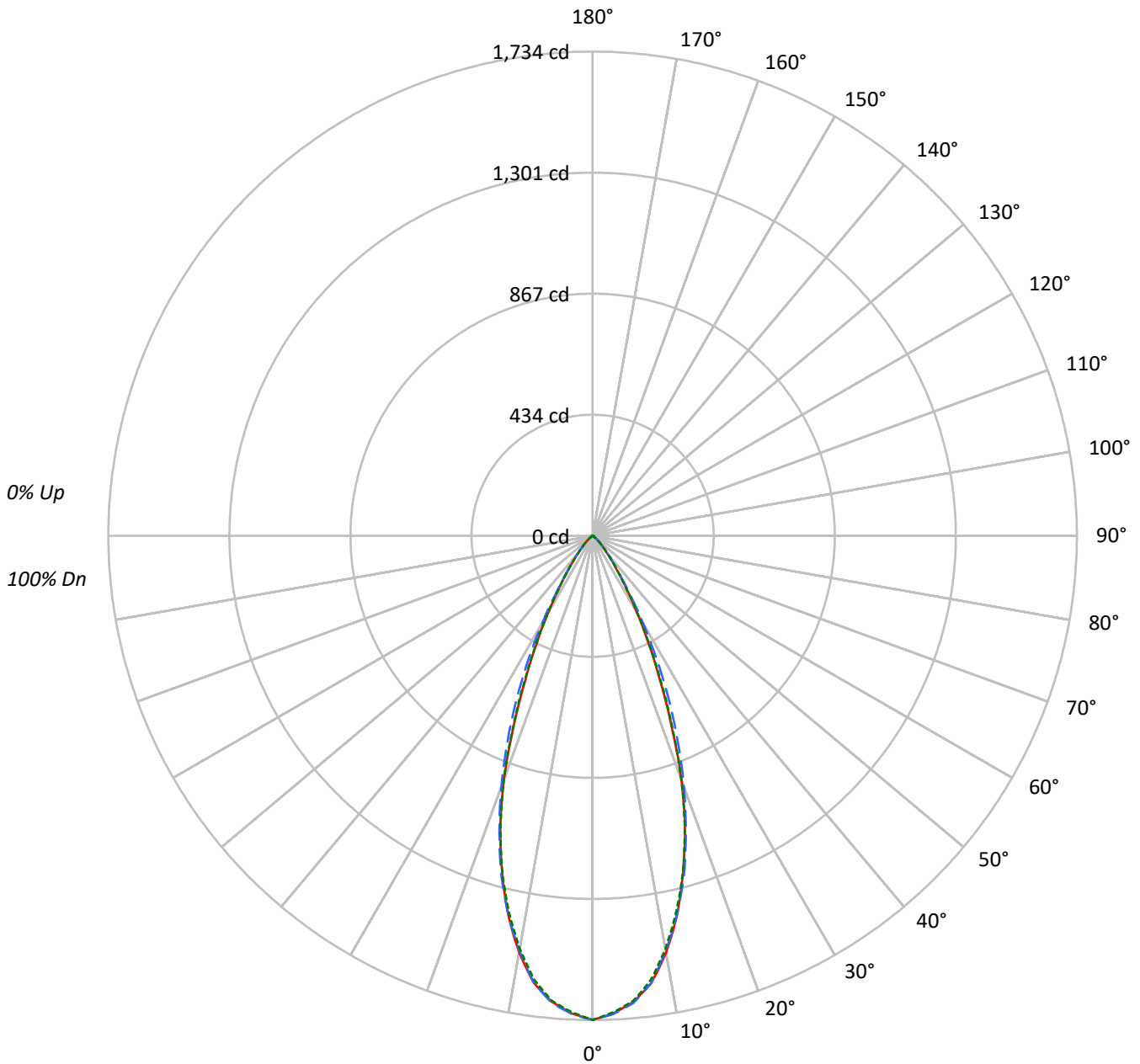
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	855391	855391	855391
5°	829686	831717	827953
10°	759475	756419	751860
15°	638815	644740	637793
20°	488535	501504	487695
25°	310233	349754	316276
30°	180419	203719	183610
35°	95402	101425	95703
40°	50364	52618	50364
45°	28118	29234	28467
50°	13125	16656	13125
55°	4731	9118	5247
60°	5427	5427	5427
65°	5837	6421	5837
70°	7212	6491	7212
75°	6672	6672	6672
80°	7103	5682	7103
85°	5661	5661	5661



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.8	16.5
10°-20°	344.6	36.6
20°-30°	278.3	29.6
30°-40°	110.0	11.7
40°-50°	33.8	3.6
50°-60°	8.7	0.9
60°-70°	5.2	0.6
70°-80°	3.8	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°	777.7	82.7
0°-40°	887.7	94.4
0°-60°	930.2	98.9
0°-90°	940.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	940.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1734	1734	1734	1734	1734	
5°	1675	1678	1679	1676	1672	155
15°	1251	1254	1262	1257	1249	344
25°	570	597	642	608	581	265
35°	158	163	168	163	159	106
45°	40	41	42	41	41	33
55°	6	8	11	8	6	7
65°	5	6	6	6	5	5
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°	1733.8	1733.8	1733.8	1733.8	1733.8
2.5°	1712.1	1713.1	1714.7	1712.6	1707.6
5°	1675.3	1678.3	1679.4	1675.8	1671.8
7.5°	1614.8	1611.3	1614.3	1608.3	1603.2
10°	1516.0	1511.4	1509.9	1500.8	1500.8
12.5°	1393.9	1392.4	1393.4	1388.9	1381.8
15°	1250.7	1254.2	1262.3	1257.2	1248.7
17.5°	1098.9	1103.9	1111.0	1109.5	1097.9
20°	930.5	945.1	955.2	945.6	928.9
22.5°	738.8	770.1	795.8	775.6	748.4
25°	569.9	597.1	642.5	608.2	581.0
27.5°	432.2	451.9	493.2	459.4	440.8
30°	316.7	328.8	357.6	335.4	322.3
32.5°	226.4	235.0	247.1	234.0	227.4
35°	158.4	162.9	168.4	163.4	158.9
37.5°	111.5	113.0	117.0	113.0	110.9
40°	78.2	78.7	81.7	79.2	78.2
42.5°	56.5	56.5	58.0	57.0	56.5
45°	40.3	40.8	41.9	41.4	40.8
47.5°	28.7	29.8	29.8	30.3	28.2
50°	17.1	21.2	21.7	21.2	17.1
52.5°	9.1	12.6	15.6	12.6	9.1
55°	5.5	7.6	10.6	7.6	6.1
57.5°	5.5	5.5	7.1	6.1	5.5
60°	5.5	5.5	5.5	5.5	5.5
62.5°	5.5	5.5	5.5	5.5	5.5
65°	5.0	5.5	5.5	5.5	5.0
67.5°	5.0	5.0	5.0	5.0	5.0
70°	5.0	5.0	4.5	5.0	5.0
72.5°	4.5	4.5	4.0	4.5	4.5
75°	3.5	3.5	3.5	3.5	3.5
77.5°	3.0	3.0	3.0	3.0	3.0
80°	2.5	2.5	2.0	2.5	2.5
82.5°	1.5	1.5	1.5	1.5	1.5
85°	1.0	1.0	1.0	1.0	1.0
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)