

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: P283900

Luminaire Tested: **LDA2B108040D010 EU2B10WFL558040 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283900
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: LDA2B108040D010 EU2B10WFL558040 2LBAPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 1000 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: 1038.6 lumens
Efficiency: N/A
Efficacy: 103.9 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

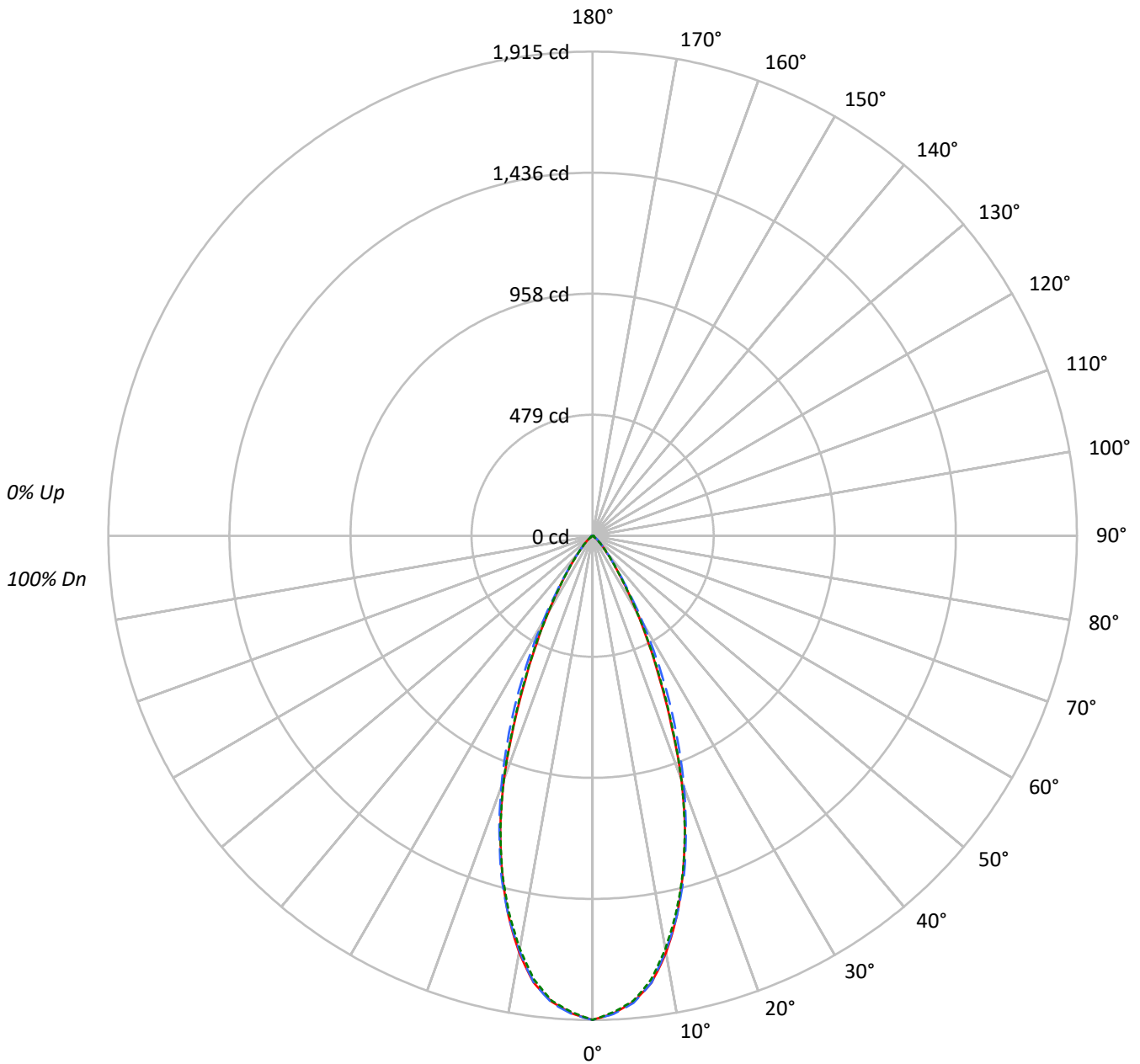
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	944689	944689	944689
5°	916305	918484	914373
10°	838728	835372	830362
15°	705470	712007	704346
20°	539515	553849	538623
25°	342623	386281	349264
30°	199276	224969	202751
35°	105339	112025	105641
40°	55580	58092	55580
45°	31118	32235	31467
50°	14506	18344	14506
55°	5247	10064	5763
60°	6019	6019	6019
65°	6537	7121	6537
70°	8078	7212	8078
75°	7434	7434	7434
80°	7955	6251	7955
85°	6227	6227	6227



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.9	16.5
10°-20°	380.6	36.6
20°-30°	307.4	29.6
30°-40°	121.5	11.7
40°-50°	37.3	3.6
50°-60°	9.6	0.9
60°-70°	5.8	0.6
70°-80°	4.3	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°	858.8	82.7
0°-40°	980.3	94.4
0°-60°	1027.2	98.9
0°-90°	1038.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1038.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1915	1915	1915	1915	1915	
5°	1850	1854	1855	1851	1846	171
15°	1381	1385	1394	1388	1379	379
25°	629	659	710	672	642	293
35°	175	180	186	180	175	117
45°	45	45	46	46	45	36
55°	6	8	12	8	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°	1914.8	1914.8	1914.8	1914.8	1914.8
2.5°	1890.8	1892.0	1893.6	1891.4	1885.8
5°	1850.2	1853.5	1854.6	1850.7	1846.3
7.5°	1783.4	1779.5	1782.8	1776.1	1770.5
10°	1674.2	1669.2	1667.5	1657.5	1657.5
12.5°	1539.4	1537.7	1538.9	1533.8	1526.0
15°	1381.2	1385.1	1394.0	1388.5	1379.0
17.5°	1213.6	1219.2	1227.0	1225.3	1212.5
20°	1027.6	1043.7	1054.9	1044.3	1025.9
22.5°	815.9	850.5	878.9	856.6	826.5
25°	629.4	659.4	709.6	671.7	641.6
27.5°	477.3	499.0	544.7	507.4	486.8
30°	349.8	363.1	394.9	370.4	355.9
32.5°	250.1	259.5	272.9	258.4	251.2
35°	174.9	179.9	186.0	180.5	175.4
37.5°	123.1	124.8	129.2	124.8	122.5
40°	86.3	86.9	90.2	87.4	86.3
42.5°	62.4	62.4	64.0	62.9	62.4
45°	44.6	45.1	46.2	45.7	45.1
47.5°	31.7	32.9	32.9	33.4	31.2
50°	18.9	23.4	23.9	23.4	18.9
52.5°	10.0	13.9	17.3	13.9	10.0
55°	6.1	8.4	11.7	8.4	6.7
57.5°	6.1	6.1	7.8	6.7	6.1
60°	6.1	6.1	6.1	6.1	6.1
62.5°	6.1	6.1	6.1	6.1	6.1
65°	5.6	6.1	6.1	6.1	5.6
67.5°	5.6	5.6	5.6	5.6	5.6
70°	5.6	5.6	5.0	5.6	5.6
72.5°	5.0	5.0	4.5	5.0	5.0
75°	3.9	3.9	3.9	3.9	3.9
77.5°	3.3	3.3	3.3	3.3	3.3
80°	2.8	2.8	2.2	2.8	2.8
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)