

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: P282669

Luminaire Tested: **LDA2B108035D010 EU2B10NFL258035 2LBALPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282669
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-26)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B108035D010 EU2B10NFL258035 2LBALPINSQ1MB
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MB
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 912.1 lumens
Efficiency: N/A
Efficacy: 91.2 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.3 / 0.32
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

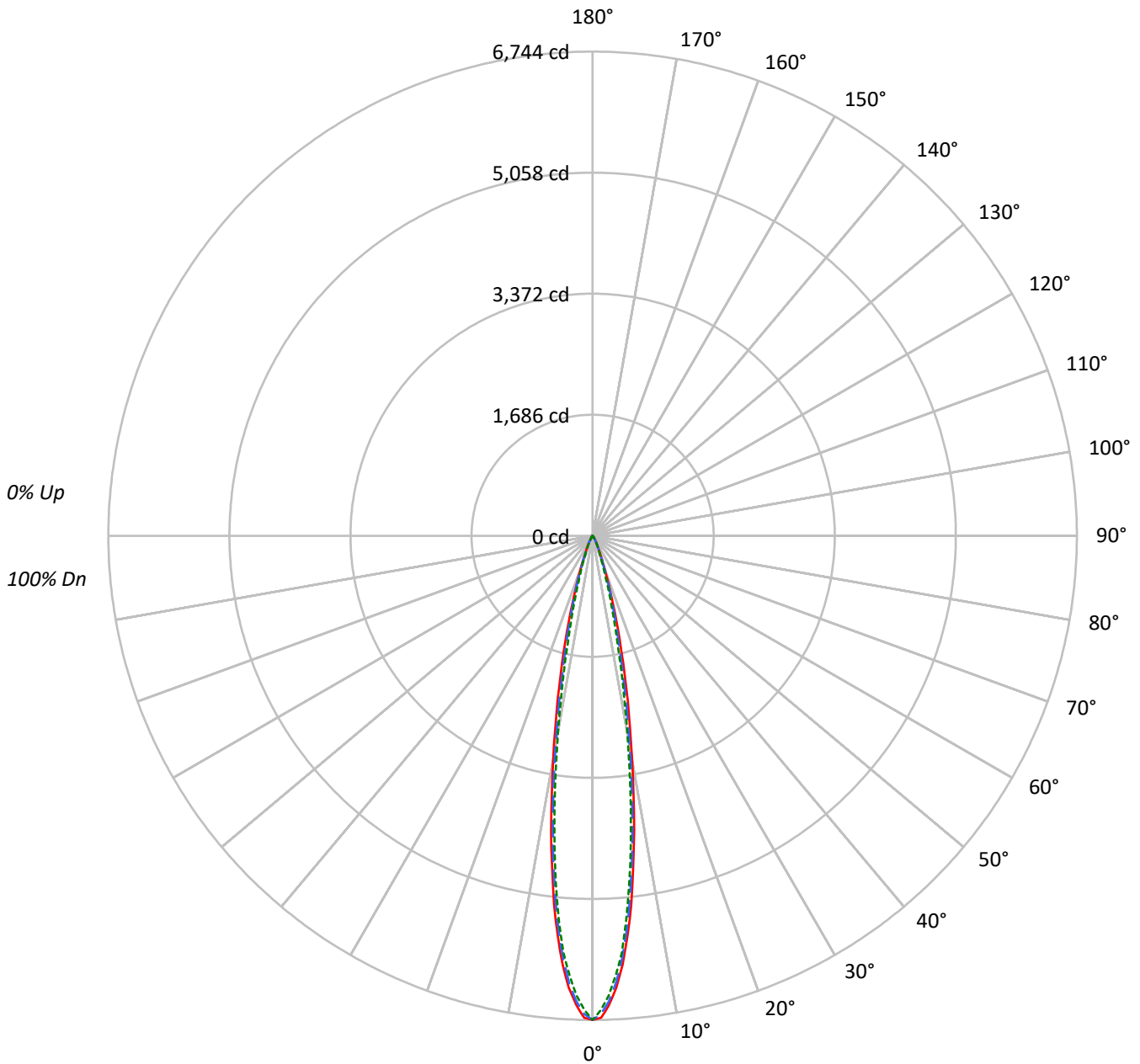
Input Watts (W): 10
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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													
1	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97						97													
2	112	109	106	104	110	107	105	103	104	102	100	101	100	98	99	97	96	95						95													
3	109	105	101	99	107	103	100	98	101	99	97	99	97	95	97	95	94	92						92													
4	106	101	98	95	105	100	97	94	98	96	93	96	94	92	95	93	91	90						90													
5	103	98	94	92	102	97	94	91	96	93	91	94	92	90	93	91	89	88						88													
6	101	95	92	89	100	95	91	89	93	90	88	92	90	88	91	89	87	86						86													
7	99	93	89	87	98	92	89	86	91	88	86	90	88	86	89	87	85	84						84													
8	96	91	87	85	96	90	87	84	89	86	84	88	86	84	88	85	83	83						83													
9	94	89	85	83	94	88	85	82	87	84	82	87	84	82	86	84	82	81						81													
10	93	87	83	81	92	86	83	81	86	83	81	85	82	80	85	82	80	79						79													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3327331	3327331	3327331
5°	2768675	2717961	2663088
10°	1585879	1488189	1388897
15°	705367	626454	524965
20°	255897	240566	190636
25°	98258	91725	78987
30°	42385	39422	34979
35°	20056	20056	16623
40°	10047	10369	8372
45°	5791	5442	5093
50°	3991	3607	3607
55°	3097	2236	2666
60°	2565	1579	2072
65°	1868	1167	1868
70°	1442	721	1442
75°	953	953	953
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	438.6	48.1
10°-20°	355.0	38.9
20°-30°	85.6	9.4
30°-40°	21.8	2.4
40°-50°	6.5	0.7
50°-60°	2.8	0.3
60°-70°	1.3	0.1
70°-80°	0.4	0.0
80°-90°	0.0	0.0
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°	879.2	96.4
0°-40°	901.0	98.8
0°-60°	910.3	99.8
0°-90°	912.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	912.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6744	6744	6744	6744	6744	
5°	5590	5539	5488	5440	5377	452
15°	1381	1348	1226	1105	1028	394
25°	180	182	168	153	145	93
35°	33	34	33	30	28	23
45°	8	8	8	7	7	7
55°	4	3	3	3	3	3
65°	2	2	1	1	2	2
75°	0	0	0	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6744.2	6744.2	6744.2	6744.2	6744.2
1°	6714.1	6667.2	6661.5	6690.6	6604.8
2°	6542.4	6509.1	6489.9	6507.0	6409.8
3°	6306.8	6274.5	6239.7	6240.2	6131.5
4°	5985.9	5960.4	5901.6	5883.9	5821.0
5°	5590.5	5539.0	5488.1	5440.2	5377.3
6°	5153.6	5087.0	5014.2	4943.0	4878.5
7°	4639.7	4595.5	4499.3	4402.0	4347.4
8°	4156.5	4085.2	3972.9	3851.2	3804.9
9°	3636.9	3585.9	3456.9	3315.4	3269.1
10°	3165.6	3112.6	2970.6	2813.0	2772.4
11°	2723.5	2673.6	2525.8	2360.4	2317.3
12°	2349.5	2278.8	2109.2	1965.6	1923.5
13°	1977.1	1928.7	1768.0	1626.0	1544.3
14°	1660.3	1620.3	1474.6	1349.8	1263.4
15°	1381.0	1348.2	1226.5	1104.8	1027.8
16°	1132.9	1112.6	1016.4	898.8	835.9
17°	919.1	900.4	839.0	730.8	677.8
18°	742.2	739.6	688.7	595.0	547.7
19°	610.7	609.6	562.8	484.3	445.2
20°	487.4	494.1	458.2	389.6	363.1
21°	397.4	401.0	372.4	320.4	296.5
22°	323.5	326.1	307.4	264.8	251.8
23°	265.3	266.8	251.2	219.5	208.1
24°	218.5	219.5	205.5	183.1	173.2
25°	180.5	181.5	168.5	152.9	145.1
26°	149.8	150.8	139.4	128.5	120.7
27°	124.3	126.4	115.0	108.2	99.9
28°	106.1	106.6	96.2	92.1	84.3
29°	86.9	90.0	81.1	77.5	71.8
30°	74.4	75.9	69.2	66.6	61.4
32.5°	49.4	50.5	47.3	45.3	41.1
35°	33.3	33.8	33.3	30.2	27.6
37.5°	22.9	22.9	23.4	19.8	18.7
40°	15.6	15.6	16.1	13.5	13.0
42.5°	11.4	11.4	10.9	9.4	9.4
45°	8.3	8.3	7.8	7.3	7.3
47.5°	6.8	6.2	5.7	5.7	5.7
50°	5.2	5.2	4.7	4.2	4.7
52.5°	4.2	4.2	3.6	3.6	3.6
55°	3.6	3.1	2.6	2.6	3.1
57.5°	2.6	2.6	2.1	2.1	2.6
60°	2.6	2.1	1.6	2.1	2.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	1.6	1.0	1.0	1.0	1.0
70°	1.0	1.0	0.5	0.5	1.0
72.5°	0.5	0.5	0.5	0.5	0.5
75°	0.5	0.5	0.5	0.5	0.5
77.5°	0.5	0.5	0.0	0.0	0.5
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0



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







62.5°	2.1	1.6	1.6	1.6	1.6
65°	1.6	1.6	1.0	1.0	1.6



(END OF REPORT)