

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: P283898

Luminaire Tested: **LDA2B108040D010 EU2B10WFL558040 2LBAPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283898
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 2LBAPINSQ1MW
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND
2in Adj SQ PinHole, MW

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1048.7 lumens
Efficiency: N/A
Efficacy: 104.9 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

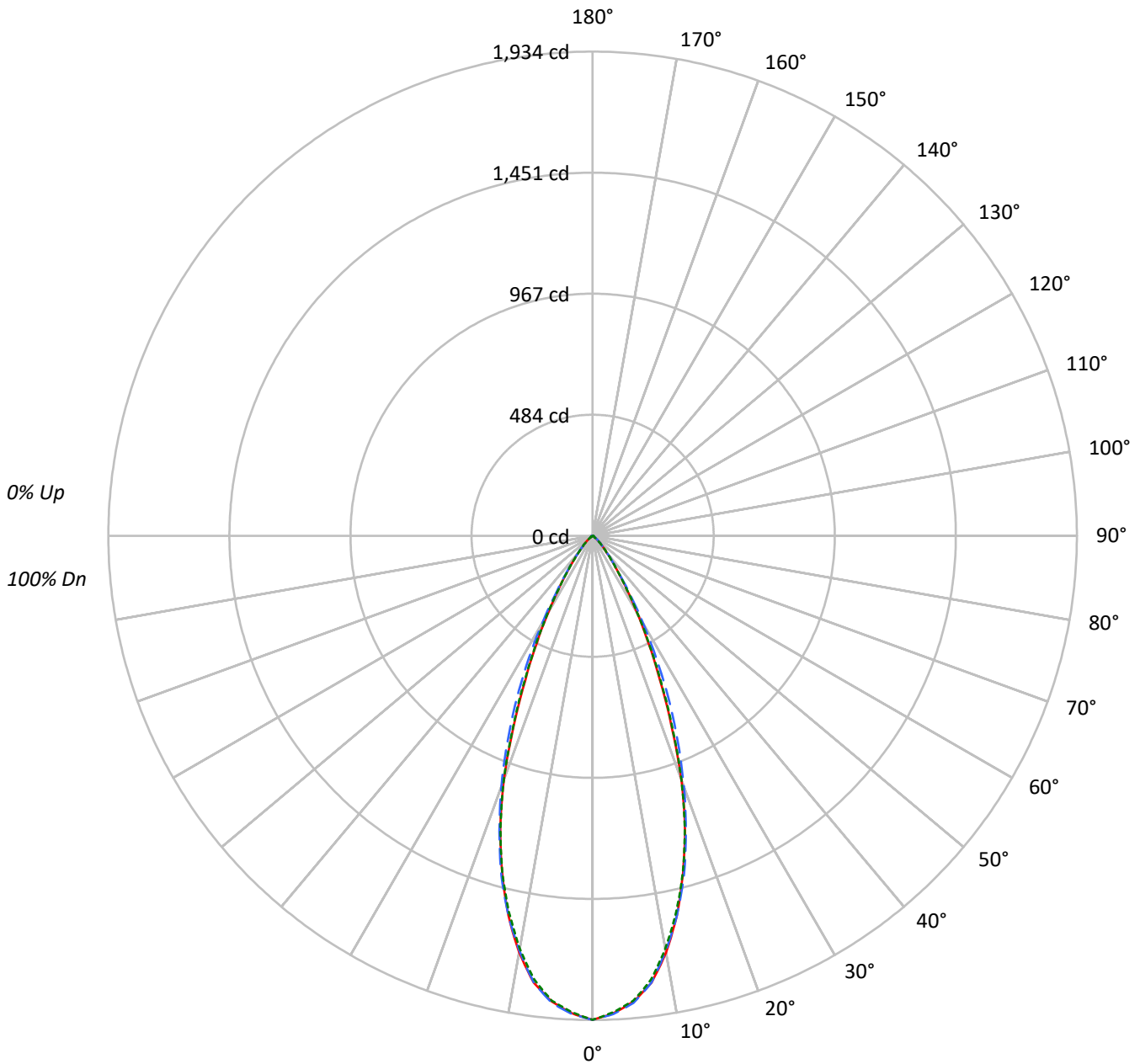
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	953915	953915	953915
5°	925219	927448	923288
10°	846894	843538	838428
15°	712365	718954	711241
20°	544766	559204	543873
25°	345944	390037	352694
30°	201213	227133	204745
35°	106363	113109	106664
40°	56160	58672	56160
45°	31397	32583	31816
50°	14660	18574	14660
55°	5333	10150	5763
60°	6118	6118	6118
65°	6537	7238	6537
70°	8078	7357	8078
75°	7434	7434	7434
80°	7955	6251	7955
85°	6227	6227	6227



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.6	16.5
10°-20°	384.3	36.6
20°-30°	310.3	29.6
30°-40°	122.7	11.7
40°-50°	37.7	3.6
50°-60°	9.7	0.9
60°-70°	5.9	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°	867.2	82.7
0°-40°	989.9	94.4
0°-60°	1037.2	98.9
0°-90°	1048.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1048.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1934	1934	1934	1934	1934	
5°	1868	1872	1873	1869	1864	173
15°	1395	1399	1408	1402	1392	383
25°	636	666	716	678	648	296
35°	177	182	188	182	177	118
45°	45	46	47	46	46	37
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°	1933.5	1933.5	1933.5	1933.5	1933.5
2.5°	1909.3	1910.4	1912.1	1909.8	1904.2
5°	1868.2	1871.6	1872.7	1868.8	1864.3
7.5°	1800.7	1796.8	1800.2	1793.4	1787.8
10°	1690.5	1685.5	1683.8	1673.6	1673.6
12.5°	1554.4	1552.7	1553.9	1548.8	1540.9
15°	1394.7	1398.6	1407.6	1402.0	1392.5
17.5°	1225.4	1231.0	1238.9	1237.2	1224.3
20°	1037.6	1053.9	1065.1	1054.5	1035.9
22.5°	823.9	858.8	887.4	864.9	834.6
25°	635.5	665.9	716.5	678.2	647.9
27.5°	482.0	503.9	550.0	512.3	491.5
30°	353.2	366.7	398.7	374.0	359.4
32.5°	252.5	262.1	275.6	260.9	253.6
35°	176.6	181.6	187.8	182.2	177.1
37.5°	124.3	126.0	130.5	126.0	123.7
40°	87.2	87.7	91.1	88.3	87.2
42.5°	63.0	63.0	64.7	63.5	63.0
45°	45.0	45.6	46.7	46.1	45.6
47.5°	32.1	33.2	33.2	33.7	31.5
50°	19.1	23.6	24.2	23.6	19.1
52.5°	10.1	14.1	17.4	14.1	10.1
55°	6.2	8.4	11.8	8.4	6.7
57.5°	6.2	6.2	7.9	6.7	6.2
60°	6.2	6.2	6.2	6.2	6.2
62.5°	6.2	6.2	6.2	6.2	6.2
65°	5.6	6.2	6.2	6.2	5.6
67.5°	5.6	5.6	5.6	5.6	5.6
70°	5.6	5.6	5.1	5.6	5.6
72.5°	5.1	5.1	4.5	5.1	5.1
75°	3.9	3.9	3.9	3.9	3.9
77.5°	3.4	3.4	3.4	3.4	3.4
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)