

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: P283698

Luminaire Tested: **LDA2B159727D010 EU2B15FL409727 2LBALPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283698
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-15)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B159727D010 EU2B15FL409727 2LBALPINSQ1MB
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MB

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 801.1 lumens
Efficiency: N/A
Efficacy: 56.8 lumens/watt
Spacing Criteria (0/90/45): 0.55 / 0.55 / 0.55
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

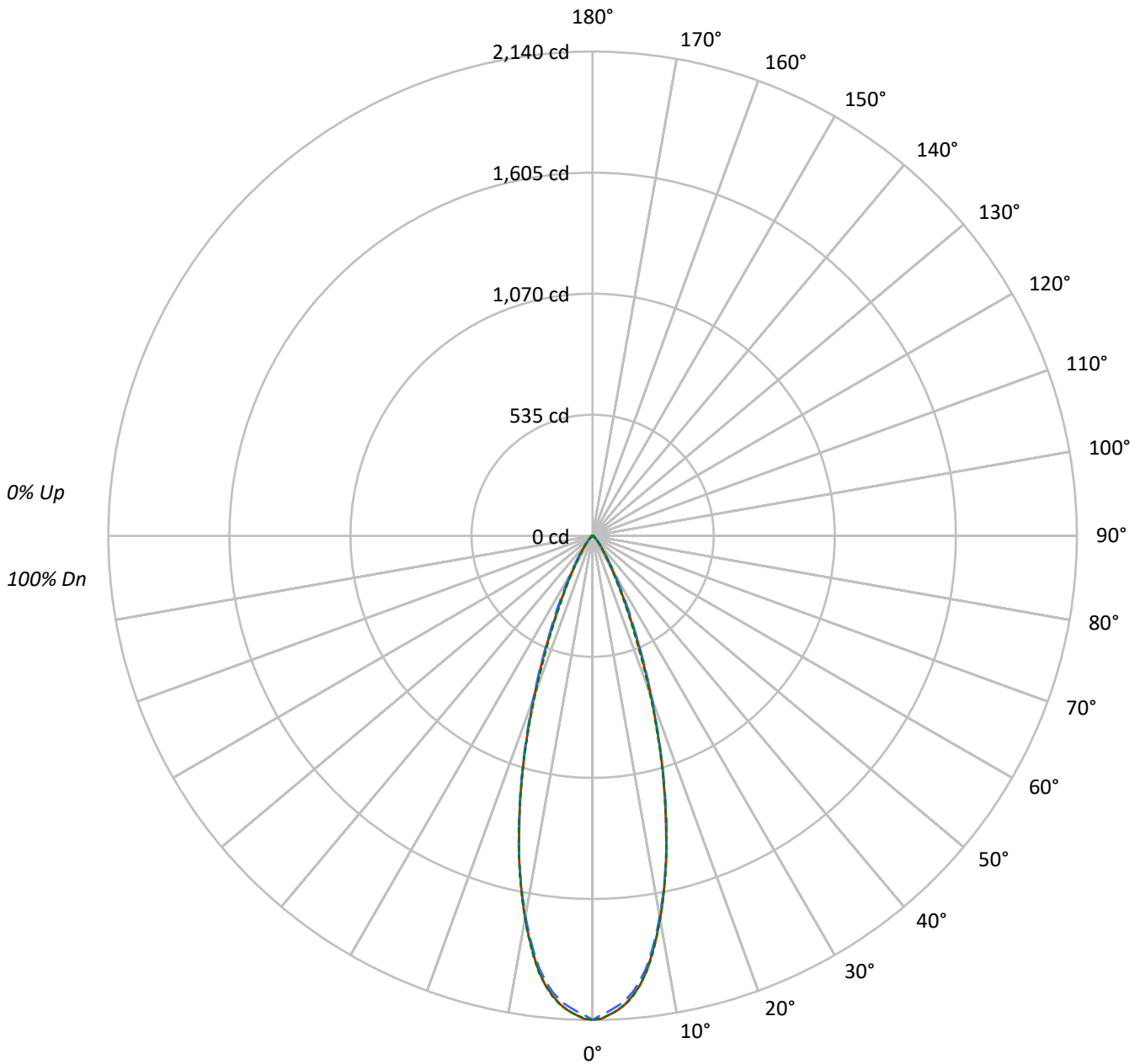
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95																			
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90																			
3	105	100	96	92	104	99	95	92	96	93	90	94	91	89	92	89	88	86																			
4	101	95	90	87	100	94	90	86	92	88	85	90	87	84	88	86	83	82																			
5	98	91	86	82	96	90	85	82	88	84	81	86	83	80	85	82	80	79																			
6	94	87	82	78	93	86	81	78	84	80	77	83	80	77	82	79	76	75																			
7	91	83	78	75	89	82	78	74	81	77	74	80	76	74	79	76	73	72																			
8	87	80	75	71	86	79	75	71	78	74	71	77	73	71	76	73	70	69																			
9	84	77	72	69	83	76	72	68	75	71	68	74	71	68	74	70	68	67																			
10	82	74	69	66	81	73	69	66	73	69	66	72	68	65	71	68	65	64																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1055548	1055548	1055548
5°	1010204	1002626	1011739
10°	860621	855210	861523
15°	634320	638457	636414
20°	395974	403324	387258
25°	204572	219488	194284
30°	98100	112399	93485
35°	50652	56012	47400
40°	28338	29819	26921
45°	17234	17234	16606
50°	8980	11052	8980
55°	4645	7311	4989
60°	5328	5328	5328
65°	5720	5720	5720
70°	7068	6491	7068
75°	6862	6862	6862
80°	6251	6251	6251
85°	5095	5095	5095



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.0	23.0
10°-20°	338.0	42.2
20°-30°	183.3	22.9
30°-40°	58.8	7.3
40°-50°	20.1	2.5
50°-60°	7.0	0.9
60°-70°	5.1	0.6
70°-80°	3.7	0.5
80°-90°	1.0	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°	705.3	88.0
0°-40°	764.2	95.4
0°-60°	791.2	98.8
0°-90°	801.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	801.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2140	2140	2140	2140	2140	
5°	2040	2027	2024	2045	2043	184
15°	1242	1252	1250	1256	1246	337
25°	376	393	403	375	357	180
35°	84	88	93	84	79	57
45°	25	25	25	25	24	20
55°	5	7	8	7	6	6
65°	5	5	5	5	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°	2139.5	2139.5	2139.5	2139.5	2139.5
1°	2135.9	2120.7	2118.4	2138.2	2133.7
2°	2118.9	2104.5	2102.2	2122.0	2118.0
3°	2100.0	2086.9	2082.5	2103.1	2100.4
4°	2074.8	2062.7	2058.6	2079.3	2077.1
5°	2039.8	2027.2	2024.5	2044.7	2042.9
6°	1996.6	1986.3	1981.3	2001.5	1997.9
7°	1942.7	1933.2	1927.8	1942.7	1944.5
8°	1872.5	1868.0	1861.8	1876.6	1876.6
9°	1797.9	1793.9	1787.1	1800.6	1800.6
10°	1717.9	1715.2	1707.1	1719.7	1719.7
11°	1630.3	1628.9	1623.1	1633.4	1633.4
12°	1538.1	1541.3	1535.9	1544.9	1541.7
13°	1446.0	1444.6	1445.1	1451.8	1446.9
14°	1341.7	1349.8	1351.1	1355.2	1347.5
15°	1241.9	1252.3	1250.0	1255.9	1246.0
16°	1139.9	1151.6	1151.1	1152.5	1143.0
17°	1044.6	1051.3	1051.8	1050.4	1038.8
18°	943.0	952.5	952.5	950.2	936.3
19°	843.7	850.9	855.8	850.9	834.7
20°	754.2	759.2	768.2	755.6	737.6
21°	668.4	672.9	680.5	665.7	645.9
22°	586.1	592.0	599.2	582.1	561.4
23°	509.3	522.7	525.4	502.1	484.5
24°	438.7	454.0	458.5	434.6	416.2
25°	375.8	392.8	403.2	375.3	356.9
26°	321.4	338.0	350.6	322.7	305.2
27°	273.7	291.3	304.3	278.2	261.6
28°	232.8	249.9	263.4	239.1	223.4
29°	202.3	212.2	225.6	205.4	191.0
30°	172.2	182.9	197.3	176.6	164.1
32.5°	118.2	124.1	135.3	122.7	112.8
35°	84.1	87.6	93.0	84.5	78.7
37.5°	59.8	61.6	64.7	59.8	56.6
40°	44.0	44.9	46.3	43.6	41.8
42.5°	32.8	33.3	33.3	32.4	31.5
45°	24.7	25.2	24.7	24.7	23.8
47.5°	18.0	19.3	18.9	18.9	17.5
50°	11.7	14.4	14.4	13.9	11.7
52.5°	7.2	9.9	11.2	9.9	7.6
55°	5.4	6.7	8.5	6.7	5.8
57.5°	5.4	5.4	6.3	5.4	5.4
60°	5.4	5.4	5.4	5.4	5.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	4.9	4.9	4.9	4.9	4.9
70°	4.9	4.9	4.5	4.9	4.9
72.5°	4.5	4.5	4.0	4.5	4.0
75°	3.6	3.6	3.6	3.6	3.6
77.5°	2.7	2.7	2.7	2.7	2.7
80°	2.2	2.2	2.2	2.2	2.2
82.5°	1.3	1.3	1.3	1.8	1.3
85°	0.9	0.9	0.9	0.9	0.9
87.5°	0.4	0.4	0.4	0.4	0.4
90°	0.0	0.0	0.0	0.0	0.0



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







62.5°	5.4	5.4	5.4	5.4	5.4
65°	4.9	5.4	4.9	5.4	4.9



(END OF REPORT)