

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: P283635

Luminaire Tested: **LDA2B158030D010 EU2B15FL408030 2LBAPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283635
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: LDA2B158030D010 EU2B15FL408030 2LBAPINSQ1MB
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ PinHole, MB

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1226.4 lumens
Efficiency: N/A
Efficacy: 87.0 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

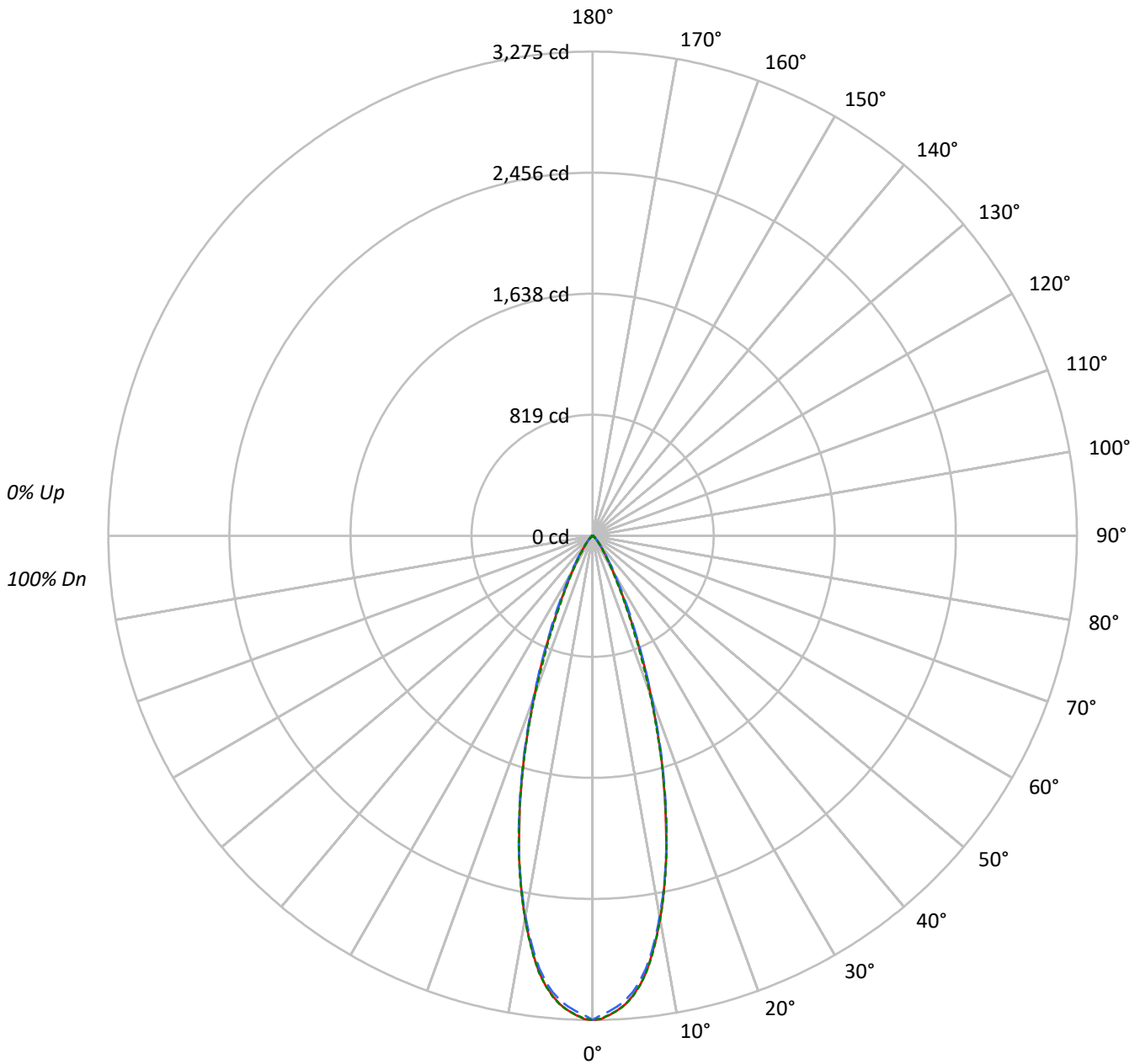
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	74	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°	1615711	1615711	1615711
5°	1546258	1534669	1548635
10°	1317358	1309092	1318710
15°	970966	977299	974132
20°	606141	617324	592753
25°	313118	335927	297386
30°	150112	172045	143048
35°	77514	85765	72515
40°	43408	45662	41218
45°	26374	26374	25467
50°	13739	16886	13739
55°	7139	11268	7655
60°	8190	8190	8190
65°	8872	8872	8872
70°	10963	9953	10963
75°	10484	10484	10484
80°	9660	9660	9660
85°	7925	7925	7925



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	281.7	23.0
10°-20°	517.4	42.2
20°-30°	280.5	22.9
30°-40°	90.0	7.3
40°-50°	30.7	2.5
50°-60°	10.8	0.9
60°-70°	7.9	0.6
70°-80°	5.7	0.5
80°-90°	1.7	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°	1079.6	88.0
0°-40°	1169.7	95.4
0°-60°	1211.1	98.8
0°-90°	1226.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1226.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3275	3275	3275	3275	3275	
5°	3122	3103	3099	3130	3127	282
15°	1901	1917	1913	1922	1907	515
25°	575	601	617	574	546	276
35°	129	134	142	129	120	87
45°	38	38	38	38	36	30
55°	8	10	13	10	9	9
65°	8	8	8	8	8	8
75°	6	6	6	6	6	6
85°	1	1	1	1	1	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3274.9	3274.9	3274.9	3274.9	3274.9
1°	3269.4	3246.0	3242.6	3272.9	3266.0
2°	3243.3	3221.3	3217.8	3248.1	3241.9
3°	3214.4	3194.4	3187.6	3219.2	3215.1
4°	3175.9	3157.3	3151.1	3182.7	3179.3
5°	3122.2	3102.9	3098.8	3129.8	3127.0
6°	3056.2	3040.3	3032.8	3063.7	3058.2
7°	2973.6	2959.1	2950.9	2973.6	2976.3
8°	2866.3	2859.4	2849.8	2872.5	2872.5
9°	2752.1	2745.9	2735.5	2756.2	2756.2
10°	2629.6	2625.5	2613.1	2632.3	2632.3
11°	2495.4	2493.4	2484.4	2500.2	2500.2
12°	2354.4	2359.2	2350.9	2364.7	2359.9
13°	2213.3	2211.3	2212.0	2222.3	2214.7
14°	2053.7	2066.1	2068.2	2074.4	2062.7
15°	1901.0	1916.8	1913.4	1922.3	1907.2
16°	1744.8	1762.7	1762.0	1764.1	1749.6
17°	1598.9	1609.3	1610.0	1607.9	1590.0
18°	1443.5	1457.9	1457.9	1454.5	1433.1
19°	1291.4	1302.4	1310.0	1302.4	1277.6
20°	1154.5	1162.1	1175.8	1156.6	1129.0
21°	1023.1	1030.0	1041.7	1018.9	988.7
22°	897.2	906.1	917.1	891.0	859.3
23°	779.5	800.2	804.3	768.5	741.7
24°	671.5	694.9	701.8	665.3	637.1
25°	575.2	601.3	617.1	574.5	546.3
26°	491.9	517.4	536.7	494.0	467.2
27°	419.0	445.8	465.8	425.9	400.4
28°	356.4	382.5	403.2	366.0	341.9
29°	309.6	324.7	345.4	314.4	292.4
30°	263.5	280.0	302.0	270.4	251.1
32.5°	180.9	189.9	207.1	187.8	172.7
35°	128.7	134.2	142.4	129.3	120.4
37.5°	91.5	94.3	99.1	91.5	86.7
40°	67.4	68.8	70.9	66.7	64.0
42.5°	50.2	50.9	50.9	49.5	48.2
45°	37.8	38.5	37.8	37.8	36.5
47.5°	27.5	29.6	28.9	28.9	26.8
50°	17.9	22.0	22.0	21.3	17.9
52.5°	11.0	15.1	17.2	15.1	11.7
55°	8.3	10.3	13.1	10.3	8.9
57.5°	8.3	8.3	9.6	8.3	8.3
60°	8.3	8.3	8.3	8.3	8.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	7.6	7.6	7.6	7.6	7.6
70°	7.6	7.6	6.9	7.6	7.6
72.5°	6.9	6.9	6.2	6.9	6.2
75°	5.5	5.5	5.5	5.5	5.5
77.5°	4.1	4.1	4.1	4.1	4.1
80°	3.4	3.4	3.4	3.4	3.4
82.5°	2.1	2.1	2.1	2.8	2.1
85°	1.4	1.4	1.4	1.4	1.4
87.5°	0.7	0.7	0.7	0.7	0.7
90°	0.0	0.0	0.0	0.0	0.0



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







62.5°	8.3	8.3	8.3	8.3	8.3
65°	7.6	8.3	7.6	8.3	7.6



(END OF REPORT)