

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: P283656

Luminaire Tested: **LDA2B158050D010 EU2B15FL408050 2LBALPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283656
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: LDA2B158050D010 EU2B15FL408050 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: 1204.2 lumens
Efficiency: N/A
Efficacy: 85.4 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

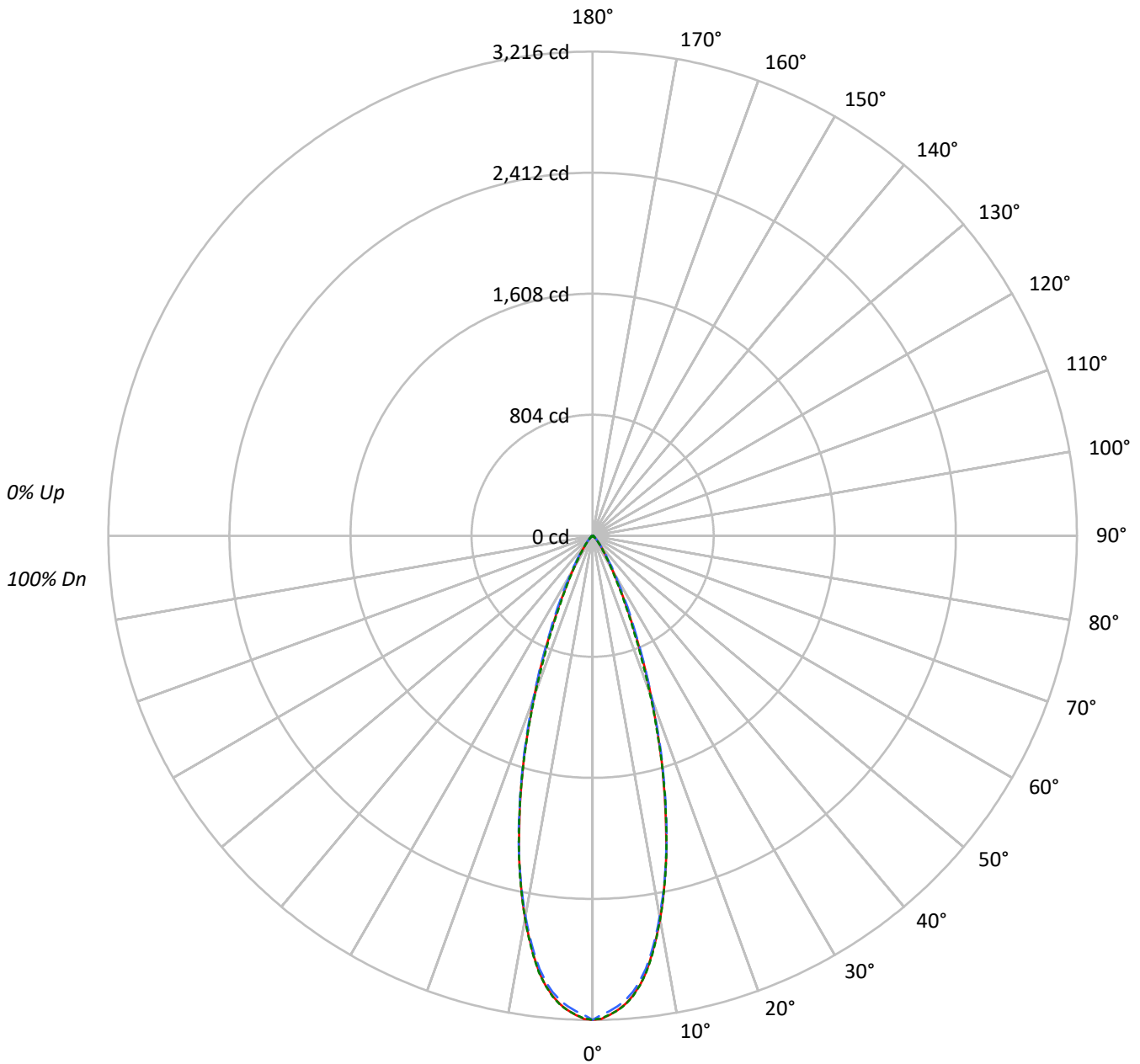
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P283656

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					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	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95					95			
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90					90			
3	105	100	96	92	104	99	95	92	96	93	90	94	91	89	92	89	88	86					86			
4	101	95	90	87	100	94	90	86	92	88	85	90	87	84	88	86	83	82					82			
5	98	91	86	82	96	90	85	82	88	84	81	86	83	80	85	82	80	79					79			
6	94	87	82	78	93	86	81	78	84	80	77	83	80	77	82	79	76	75					75			
7	91	83	78	75	89	82	78	74	81	77	74	80	76	74	79	76	73	72					72			
8	87	80	75	71	86	79	74	71	78	74	71	77	73	71	76	73	70	69					69			
9	84	77	72	69	83	76	72	68	75	71	68	74	71	68	74	70	68	67					67			
10	82	74	69	66	81	73	69	66	73	69	66	72	68	65	71	68	65	64					64			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1586553	1586553	1586553
5°	1518326	1506985	1520703
10°	1293562	1285446	1294914
15°	953446	959627	956511
20°	595168	606193	582042
25°	307457	329885	291997
30°	147435	168969	140484
35°	76068	84199	71190
40°	42635	44825	40446
45°	25955	25955	24978
50°	13509	16579	13509
55°	6967	11010	7569
60°	7992	7992	7992
65°	8639	8639	8639
70°	10674	9809	10674
75°	10293	10293	10293
80°	9660	9660	9660
85°	7925	7925	7925



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.6	23.0
10°-20°	508.1	42.2
20°-30°	275.5	22.9
30°-40°	88.4	7.3
40°-50°	30.1	2.5
50°-60°	10.6	0.9
60°-70°	7.7	0.6
70°-80°	5.6	0.5
80°-90°	1.6	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°	1060.2	88.0
0°-40°	1148.6	95.4
0°-60°	1189.3	98.8
0°-90°	1204.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1204.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3216	3216	3216	3216	3216	
5°	3066	3047	3043	3073	3071	277
15°	1867	1882	1879	1888	1873	506
25°	565	590	606	564	536	271
35°	126	132	140	127	118	85
45°	37	38	37	37	36	30
55°	8	10	13	10	9	9
65°	7	8	7	8	7	8
75°	5	5	5	5	5	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°	3215.8	3215.8	3215.8	3215.8	3215.8
1°	3210.4	3187.4	3184.1	3213.8	3207.0
2°	3184.7	3163.1	3159.7	3189.5	3183.4
3°	3156.4	3136.8	3130.0	3161.1	3157.0
4°	3118.5	3100.3	3094.2	3125.3	3121.9
5°	3065.8	3046.9	3042.9	3073.3	3070.6
6°	3001.0	2985.4	2978.0	3008.4	3003.0
7°	2919.9	2905.7	2897.6	2919.9	2922.6
8°	2814.5	2807.8	2798.3	2820.6	2820.6
9°	2702.4	2696.3	2686.2	2706.4	2706.4
10°	2582.1	2578.1	2565.9	2584.8	2584.8
11°	2450.4	2448.3	2439.6	2455.1	2455.1
12°	2311.9	2316.6	2308.5	2322.0	2317.3
13°	2173.4	2171.4	2172.0	2182.2	2174.7
14°	2016.6	2028.8	2030.8	2036.9	2025.4
15°	1866.7	1882.2	1878.8	1887.6	1872.7
16°	1713.3	1730.9	1730.2	1732.2	1718.0
17°	1570.1	1580.2	1580.9	1578.9	1561.3
18°	1417.4	1431.6	1431.6	1428.2	1407.3
19°	1268.1	1278.9	1286.3	1278.9	1254.6
20°	1133.6	1141.1	1154.6	1135.7	1108.6
21°	1004.6	1011.4	1022.8	1000.6	970.8
22°	881.0	889.8	900.6	874.9	843.8
23°	765.4	785.7	789.8	754.6	728.3
24°	659.4	682.3	689.1	653.3	625.6
25°	564.8	590.5	606.0	564.1	536.4
26°	483.0	508.0	527.0	485.1	458.7
27°	411.4	437.8	457.4	418.2	393.2
28°	350.0	375.6	395.9	359.4	335.8
29°	304.0	318.9	339.1	308.7	287.1
30°	258.8	275.0	296.6	265.5	246.6
32.5°	177.7	186.5	203.4	184.4	169.6
35°	126.3	131.7	139.8	127.0	118.2
37.5°	89.9	92.6	97.3	89.9	85.1
40°	66.2	67.6	69.6	65.5	62.8
42.5°	49.3	50.0	50.0	48.6	47.3
45°	37.2	37.8	37.2	37.2	35.8
47.5°	27.0	29.1	28.4	28.4	26.3
50°	17.6	21.6	21.6	20.9	17.6
52.5°	10.8	14.9	16.9	14.9	11.5
55°	8.1	10.1	12.8	10.1	8.8
57.5°	8.1	8.1	9.5	8.1	8.1
60°	8.1	8.1	8.1	8.1	8.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	7.4	7.4	7.4	7.4	7.4
70°	7.4	7.4	6.8	7.4	7.4
72.5°	6.8	6.8	6.1	6.8	6.1
75°	5.4	5.4	5.4	5.4	5.4
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°	2.0	2.0	2.0	2.7	2.0
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°	8.1	8.1	8.1	8.1	8.1
65°	7.4	8.1	7.4	8.1	7.4



(END OF REPORT)