

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: P283636

Luminaire Tested: **LDA2B158030D010 EU2B15FL408030 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P283636  
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 2LBAPINSQ1MMS  
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ PinHole, MMS

Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1252.6 lumens  
Efficiency: N/A  
Efficacy: 88.8 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

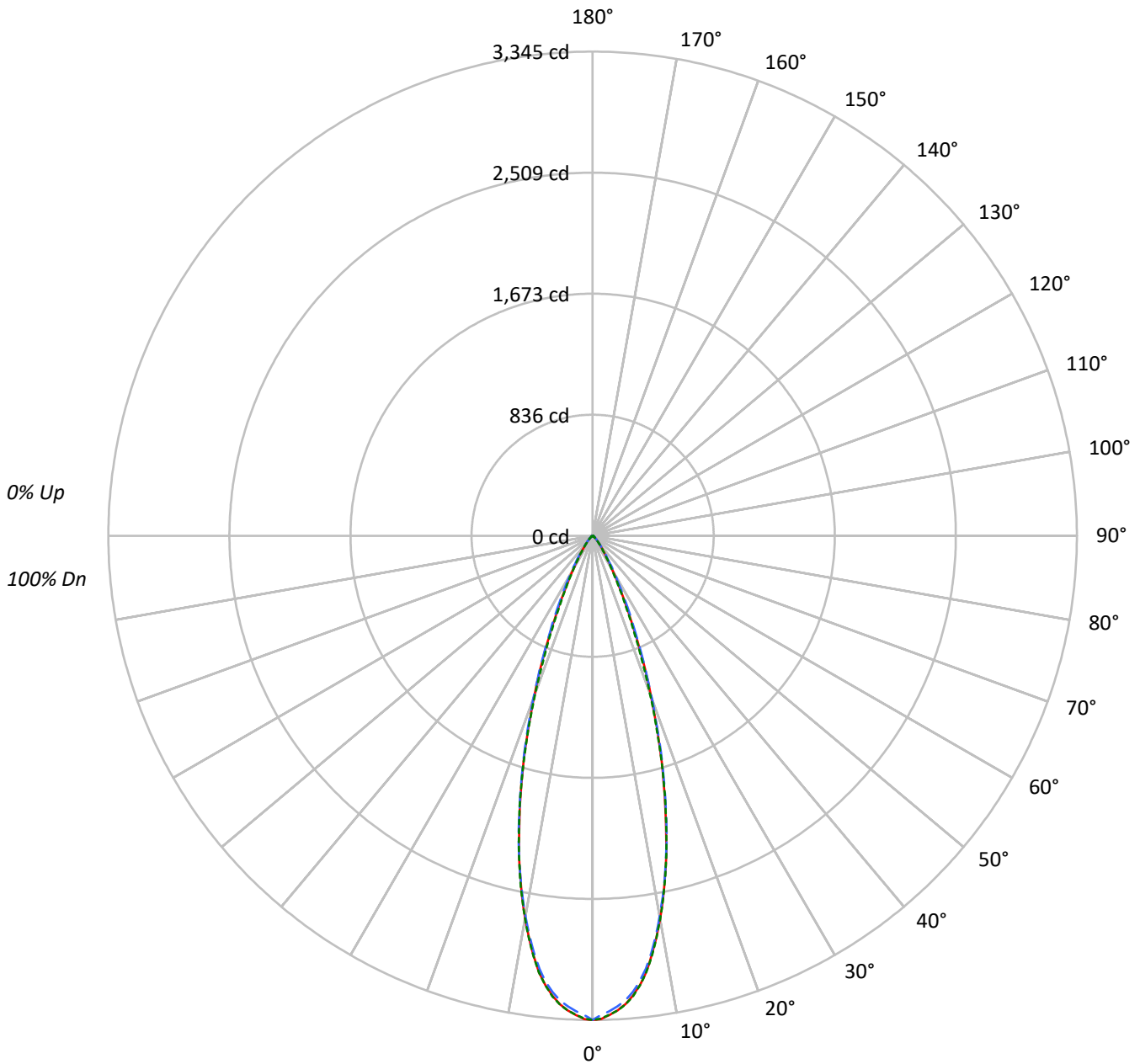
Input Watts (W): 14.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				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	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	75	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°	1650394	1650394	1650394
5°	1579440	1567603	1581866
10°	1345613	1337146	1347015
15°	991805	998240	995023
20°	619109	630555	605458
25°	319814	343167	303755
30°	153359	175748	146124
35°	79140	87632	74081
40°	44374	46628	42120
45°	27002	27002	25955
50°	14046	17270	14046
55°	7225	11526	7827
60°	8288	8288	8288
65°	8989	8989	8989
70°	11107	10097	11107
75°	10675	10675	10675
80°	9944	9944	9944
85°	7925	7925	7925



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	287.7	23.0
10°-20°	528.5	42.2
20°-30°	286.5	22.9
30°-40°	92.0	7.3
40°-50°	31.4	2.5
50°-60°	11.0	0.9
60°-70°	8.0	0.6
70°-80°	5.8	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°	1102.8	88.0
0°-40°	1194.8	95.4
0°-60°	1237.1	98.8
0°-90°	1252.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1252.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3345	3345	3345	3345	3345	
5°	3189	3170	3165	3197	3194	288
15°	1942	1958	1954	1964	1948	526
25°	588	614	630	587	558	282
35°	131	137	146	132	123	89
45°	39	39	39	39	37	31
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°	3345.2	3345.2	3345.2	3345.2	3345.2
1°	3339.6	3315.7	3312.2	3343.1	3336.1
2°	3312.9	3290.4	3286.9	3317.8	3311.5
3°	3283.3	3263.0	3255.9	3288.3	3284.0
4°	3244.0	3225.0	3218.7	3251.0	3247.5
5°	3189.2	3169.5	3165.3	3196.9	3194.1
6°	3121.7	3105.5	3097.8	3129.4	3123.8
7°	3037.4	3022.6	3014.2	3037.4	3040.2
8°	2927.7	2920.7	2910.9	2934.1	2934.1
9°	2811.1	2804.8	2794.2	2815.3	2815.3
10°	2686.0	2681.8	2669.1	2688.8	2688.8
11°	2549.0	2546.8	2537.7	2553.9	2553.9
12°	2404.9	2409.8	2401.4	2415.4	2410.5
13°	2260.8	2258.7	2259.4	2270.0	2262.2
14°	2097.8	2110.4	2112.5	2118.9	2106.9
15°	1941.8	1957.9	1954.4	1963.5	1948.1
16°	1782.2	1800.5	1799.8	1801.9	1787.1
17°	1633.2	1643.8	1644.5	1642.4	1624.1
18°	1474.4	1489.2	1489.2	1485.7	1463.9
19°	1319.1	1330.3	1338.1	1330.3	1305.0
20°	1179.2	1187.0	1201.0	1181.4	1153.2
21°	1045.0	1052.0	1064.0	1040.8	1009.9
22°	916.4	925.5	936.8	910.1	877.8
23°	796.2	817.3	821.5	785.0	757.6
24°	685.9	709.8	716.8	679.6	650.8
25°	587.5	614.2	630.4	586.8	558.0
26°	502.5	528.5	548.2	504.6	477.2
27°	428.0	455.4	475.8	435.0	409.0
28°	364.0	390.7	411.8	373.9	349.3
29°	316.2	331.7	352.8	321.2	298.7
30°	269.2	286.0	308.5	276.2	256.5
32.5°	184.8	194.0	211.5	191.9	176.4
35°	131.4	137.0	145.5	132.1	123.0
37.5°	93.5	96.3	101.2	93.5	88.5
40°	68.9	70.3	72.4	68.2	65.4
42.5°	51.3	52.0	52.0	50.6	49.2
45°	38.7	39.4	38.7	38.7	37.2
47.5°	28.1	30.2	29.5	29.5	27.4
50°	18.3	22.5	22.5	21.8	18.3
52.5°	11.2	15.5	17.6	15.5	11.9
55°	8.4	10.5	13.4	10.5	9.1
57.5°	8.4	8.4	9.8	8.4	8.4
60°	8.4	8.4	8.4	8.4	8.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	7.7	7.7	7.7	7.7	7.7
70°	7.7	7.7	7.0	7.7	7.7
72.5°	7.0	7.0	6.3	7.0	6.3
75°	5.6	5.6	5.6	5.6	5.6
77.5°	4.2	4.2	4.2	4.2	4.2
80°	3.5	3.5	3.5	3.5	3.5
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°	8.4	8.4	8.4	8.4	8.4
65°	7.7	8.4	7.7	8.4	7.7



(END OF REPORT)