

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: P283661

Luminaire Tested: **LDA2B159024D010 EU2B15FL409024 2LBALPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283661
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: LDA2B159024D010 EU2B15FL409024 2LBALPINSQ1MW
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MW

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 858.0 lumens
Efficiency: N/A
Efficacy: 60.9 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

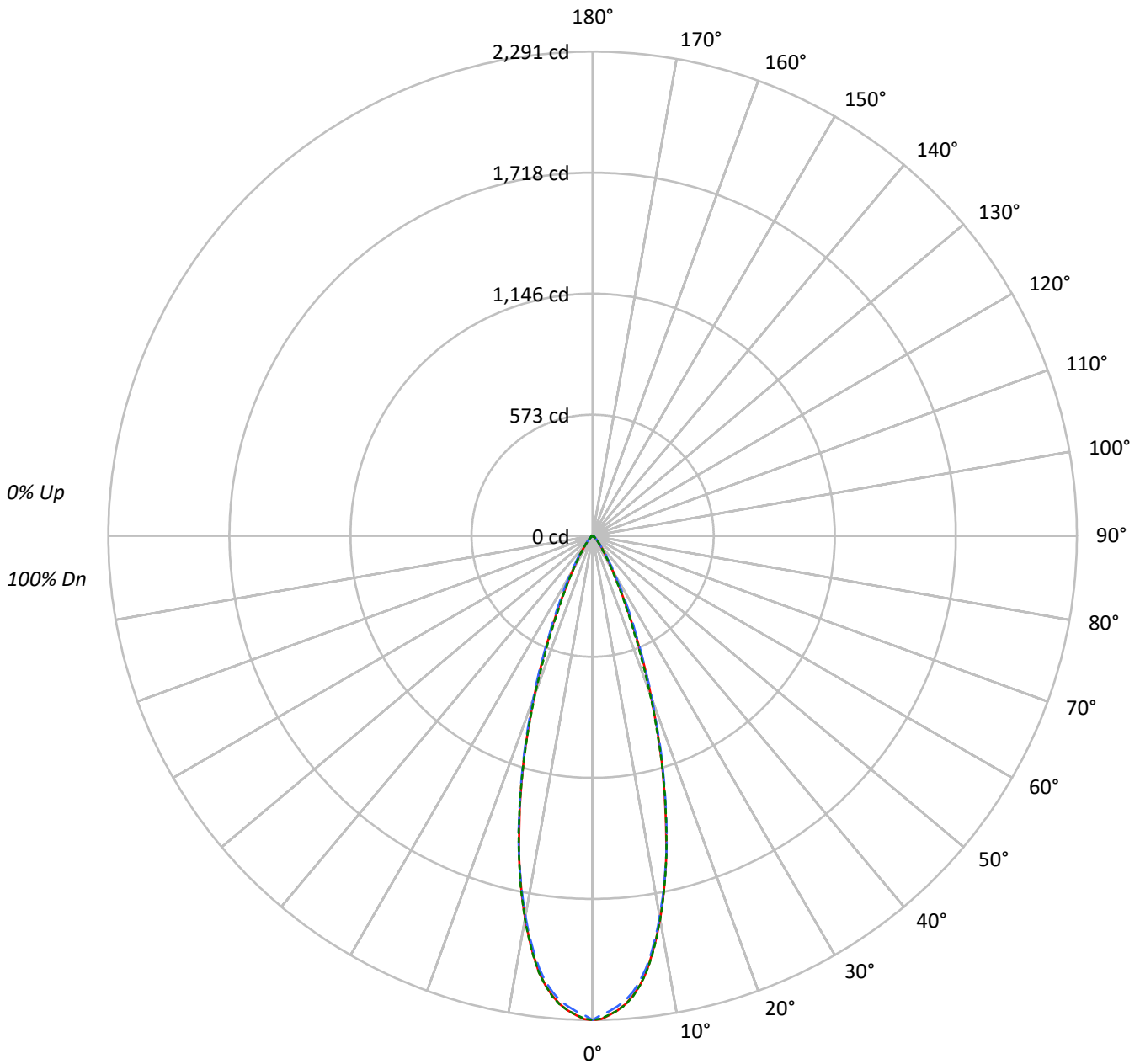
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1130440	1130440	1130440
5°	1081816	1073744	1083500
10°	921690	915878	922641
15°	679318	683762	681515
20°	424062	431938	414717
25°	219052	235057	208056
30°	105050	120374	100094
35°	54206	59987	50712
40°	30399	31944	28853
45°	18490	18490	17792
50°	9594	11820	9594
55°	4989	7827	5419
60°	5723	5723	5723
65°	6187	6187	6187
70°	7645	6924	7645
75°	7434	7434	7434
80°	6819	6819	6819
85°	5661	5661	5661



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.1	23.0
10°-20°	362.0	42.2
20°-30°	196.3	22.9
30°-40°	63.0	7.3
40°-50°	21.5	2.5
50°-60°	7.5	0.9
60°-70°	5.5	0.6
70°-80°	4.0	0.5
80°-90°	1.1	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°	755.4	88.0
0°-40°	818.4	95.4
0°-60°	847.4	98.8
0°-90°	858.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	858.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2291	2291	2291	2291	2291	
5°	2184	2171	2168	2190	2188	198
15°	1330	1341	1339	1345	1334	361
25°	402	421	432	402	382	193
35°	90	94	100	90	84	61
45°	26	27	26	26	26	21
55°	6	7	9	7	6	6
65°	5	6	5	6	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°	2291.3	2291.3	2291.3	2291.3	2291.3
1°	2287.4	2271.1	2268.7	2289.9	2285.0
2°	2269.2	2253.8	2251.3	2272.5	2268.2
3°	2248.9	2235.0	2230.2	2252.3	2249.4
4°	2222.0	2209.0	2204.7	2226.8	2224.4
5°	2184.4	2171.0	2168.1	2189.7	2187.8
6°	2138.2	2127.2	2121.9	2143.5	2139.7
7°	2080.5	2070.4	2064.6	2080.5	2082.4
8°	2005.4	2000.6	1993.8	2009.7	2009.7
9°	1925.5	1921.1	1913.9	1928.3	1928.3
10°	1839.8	1836.9	1828.2	1841.7	1841.7
11°	1745.9	1744.5	1738.2	1749.3	1749.3
12°	1647.2	1650.6	1644.8	1654.5	1651.1
13°	1548.6	1547.1	1547.6	1554.8	1549.5
14°	1436.9	1445.5	1447.0	1451.3	1443.1
15°	1330.0	1341.1	1338.7	1344.9	1334.3
16°	1220.7	1233.3	1232.8	1234.2	1224.1
17°	1118.7	1125.9	1126.4	1125.0	1112.4
18°	1009.9	1020.0	1020.0	1017.6	1002.7
19°	903.5	911.2	916.5	911.2	893.9
20°	807.7	813.0	822.7	809.2	789.9
21°	715.8	720.6	728.8	712.9	691.7
22°	627.7	634.0	641.7	623.4	601.2
23°	545.4	559.8	562.7	537.7	518.9
24°	469.8	486.2	491.0	465.5	445.7
25°	402.4	420.7	431.8	401.9	382.2
26°	344.2	362.0	375.5	345.6	326.8
27°	293.2	311.9	325.9	298.0	280.2
28°	249.3	267.6	282.1	256.1	239.2
29°	216.6	227.2	241.6	220.0	204.6
30°	184.4	195.9	211.3	189.2	175.7
32.5°	126.6	132.9	144.9	131.4	120.8
35°	90.0	93.9	99.6	90.5	84.2
37.5°	64.0	65.9	69.3	64.0	60.7
40°	47.2	48.1	49.6	46.7	44.8
42.5°	35.1	35.6	35.6	34.7	33.7
45°	26.5	27.0	26.5	26.5	25.5
47.5°	19.3	20.7	20.2	20.2	18.8
50°	12.5	15.4	15.4	14.9	12.5
52.5°	7.7	10.6	12.0	10.6	8.2
55°	5.8	7.2	9.1	7.2	6.3
57.5°	5.8	5.8	6.7	5.8	5.8
60°	5.8	5.8	5.8	5.8	5.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	5.3	5.3	5.3	5.3	5.3
70°	5.3	5.3	4.8	5.3	5.3
72.5°	4.8	4.8	4.3	4.8	4.3
75°	3.9	3.9	3.9	3.9	3.9
77.5°	2.9	2.9	2.9	2.9	2.9
80°	2.4	2.4	2.4	2.4	2.4
82.5°	1.4	1.4	1.4	1.9	1.4
85°	1.0	1.0	1.0	1.0	1.0
87.5°	0.5	0.5	0.5	0.5	0.5
90°	0.0	0.0	0.0	0.0	0.0



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







62.5°	5.8	5.8	5.8	5.8	5.8
65°	5.3	5.8	5.3	5.8	5.3



(END OF REPORT)