

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: P283697

Luminaire Tested: **LDA2B159727D010 EU2B15FL409727 2LBALPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283697
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 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: 831.8 lumens
Efficiency: N/A
Efficacy: 59.0 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

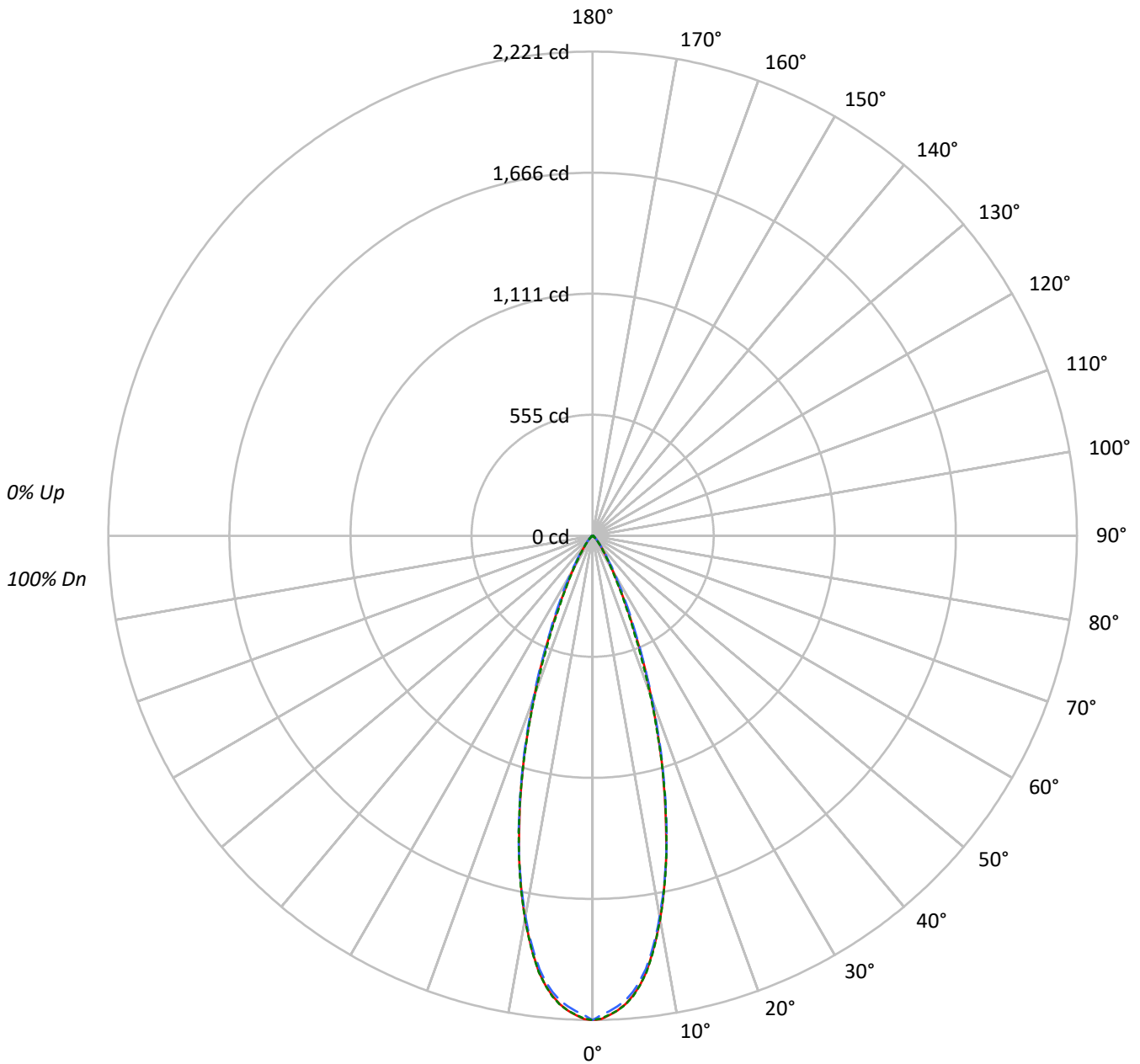
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1095954	1095954	1095954
5°	1048833	1040958	1050467
10°	893585	887974	894487
15°	658581	662923	660727
20°	411147	418760	402064
25°	212357	227871	201687
30°	101803	116728	97017
35°	52579	58181	49207
40°	29433	30978	27951
45°	17931	17931	17234
50°	9287	11436	9287
55°	4817	7655	5247
60°	5526	5526	5526
65°	5954	5954	5954
70°	7357	6780	7357
75°	7053	7053	7053
80°	6535	6535	6535
85°	5095	5095	5095



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.1	23.0
10°-20°	351.0	42.2
20°-30°	190.3	22.9
30°-40°	61.1	7.3
40°-50°	20.8	2.5
50°-60°	7.3	0.9
60°-70°	5.3	0.6
70°-80°	3.9	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°	732.3	88.0
0°-40°	793.4	95.4
0°-60°	821.5	98.8
0°-90°	831.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	831.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2221	2221	2221	2221	2221	
5°	2118	2105	2102	2123	2121	192
15°	1289	1300	1298	1304	1294	350
25°	390	408	419	390	370	187
35°	87	91	97	88	82	59
45°	26	26	26	26	25	20
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°	2221.4	2221.4	2221.4	2221.4	2221.4
1°	2217.7	2201.8	2199.5	2220.0	2215.4
2°	2200.0	2185.0	2182.7	2203.2	2199.0
3°	2180.4	2166.8	2162.2	2183.6	2180.8
4°	2154.2	2141.6	2137.4	2158.9	2156.5
5°	2117.8	2104.7	2101.9	2122.9	2121.1
6°	2073.0	2062.3	2057.1	2078.1	2074.4
7°	2017.0	2007.2	2001.6	2017.0	2018.9
8°	1944.2	1939.5	1933.0	1948.4	1948.4
9°	1866.7	1862.5	1855.5	1869.5	1869.5
10°	1783.7	1780.9	1772.5	1785.5	1785.5
11°	1692.7	1691.3	1685.2	1695.9	1695.9
12°	1597.0	1600.3	1594.7	1604.0	1600.7
13°	1501.3	1499.9	1500.4	1507.4	1502.3
14°	1393.1	1401.5	1402.9	1407.1	1399.1
15°	1289.4	1300.2	1297.9	1303.9	1293.6
16°	1183.5	1195.6	1195.2	1196.6	1186.8
17°	1084.6	1091.6	1092.0	1090.6	1078.5
18°	979.1	988.9	988.9	986.6	972.1
19°	876.0	883.4	888.6	883.4	866.6
20°	783.1	788.2	797.6	784.5	765.8
21°	694.0	698.6	706.6	691.2	670.6
22°	608.6	614.6	622.1	604.4	582.9
23°	528.8	542.8	545.6	521.3	503.1
24°	455.5	471.4	476.0	451.3	432.2
25°	390.1	407.9	418.6	389.7	370.5
26°	333.7	350.9	364.0	335.1	316.9
27°	284.2	302.4	315.9	288.9	271.6
28°	241.7	259.5	273.5	248.3	231.9
29°	210.0	220.3	234.3	213.3	198.3
30°	178.7	189.9	204.9	183.4	170.3
32.5°	122.7	128.8	140.5	127.4	117.1
35°	87.3	91.0	96.6	87.7	81.7
37.5°	62.1	63.9	67.2	62.1	58.8
40°	45.7	46.7	48.1	45.3	43.4
42.5°	34.1	34.5	34.5	33.6	32.7
45°	25.7	26.1	25.7	25.7	24.7
47.5°	18.7	20.1	19.6	19.6	18.2
50°	12.1	14.9	14.9	14.5	12.1
52.5°	7.5	10.3	11.7	10.3	7.9
55°	5.6	7.0	8.9	7.0	6.1
57.5°	5.6	5.6	6.5	5.6	5.6
60°	5.6	5.6	5.6	5.6	5.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	5.1	5.1	5.1	5.1	5.1
70°	5.1	5.1	4.7	5.1	5.1
72.5°	4.7	4.7	4.2	4.7	4.2
75°	3.7	3.7	3.7	3.7	3.7
77.5°	2.8	2.8	2.8	2.8	2.8
80°	2.3	2.3	2.3	2.3	2.3
82.5°	1.4	1.4	1.4	1.9	1.4
85°	0.9	0.9	0.9	0.9	0.9
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°	5.6	5.6	5.6	5.6	5.6
65°	5.1	5.6	5.1	5.6	5.1



(END OF REPORT)