

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: P283477

Luminaire Tested: **LDA2B058035D010 EU2B05FL408035 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283477
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: LDA2B058035D010 EU2B05FL408035 2LBALPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MMS

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 654.1 lumens
Efficiency: N/A
Efficacy: 93.4 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

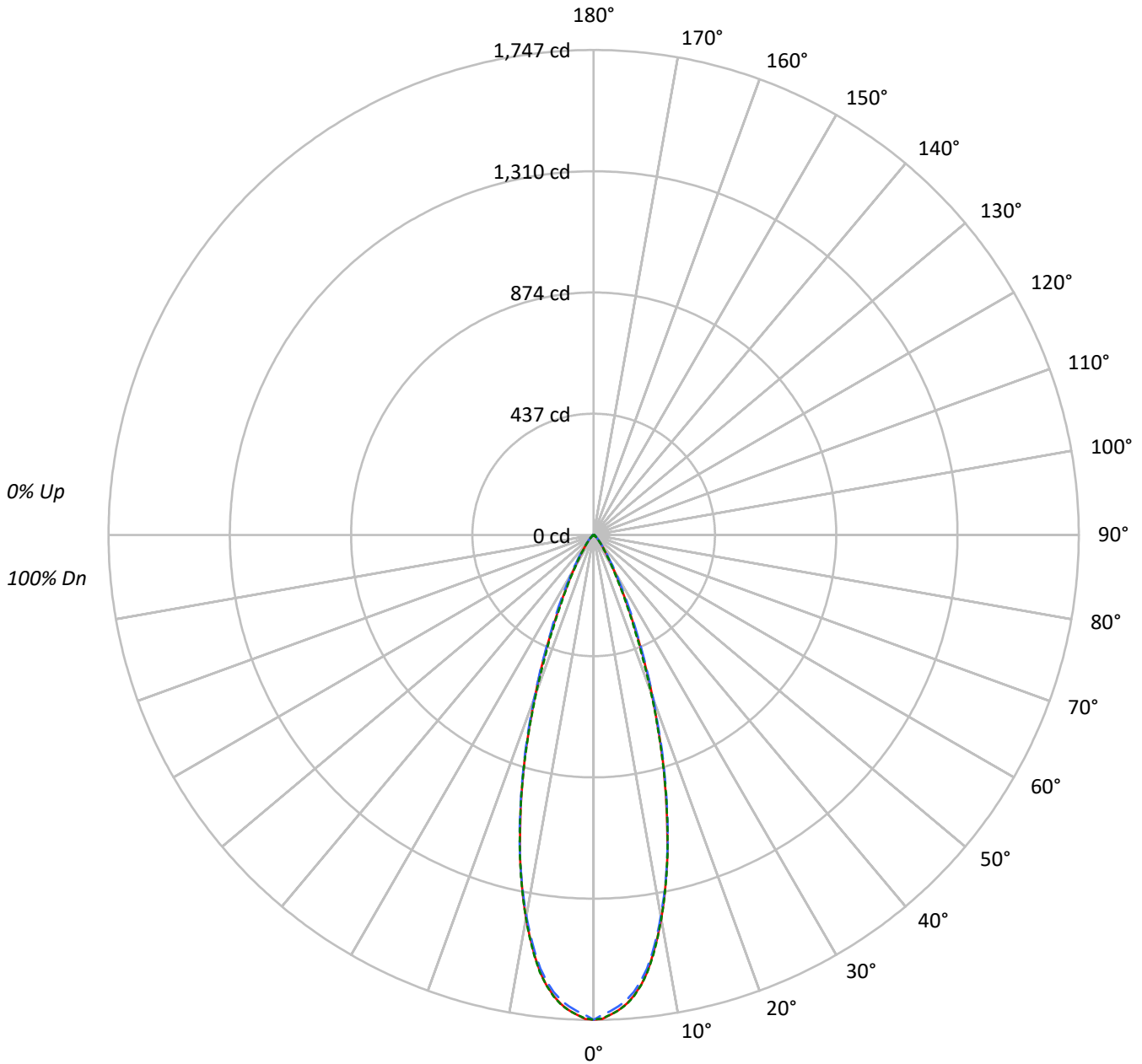
Input Watts (W): 7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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	75	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°	861804	861804	861804
5°	824783	818593	826021
10°	702664	698256	703416
15°	517916	521287	519602
20°	323310	329295	316170
25°	167011	179205	158628
30°	80098	91776	76281
35°	41317	45774	38667
40°	23185	24345	21962
45°	14094	14094	13536
50°	7292	8980	7292
55°	3785	6021	4129
60°	4342	4342	4342
65°	4670	4670	4670
70°	5770	5337	5770
75°	5528	5528	5528
80°	5114	5114	5114
85°	3962	3962	3962



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.3	23.0
10°-20°	276.0	42.2
20°-30°	149.6	22.9
30°-40°	48.0	7.3
40°-50°	16.4	2.5
50°-60°	5.7	0.9
60°-70°	4.2	0.6
70°-80°	3.0	0.5
80°-90°	0.9	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°	575.9	88.0
0°-40°	623.9	95.4
0°-60°	646.0	98.8
0°-90°	654.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	654.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1747	1747	1747	1747	1747	
5°	1665	1655	1653	1669	1668	151
15°	1014	1022	1021	1025	1017	275
25°	307	321	329	306	291	147
35°	69	72	76	69	64	46
45°	20	21	20	20	19	16
55°	4	6	7	6	5	5
65°	4	4	4	4	4	4
75°	3	3	3	3	3	3
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°	1746.8	1746.8	1746.8	1746.8	1746.8
1°	1743.9	1731.4	1729.6	1745.7	1742.1
2°	1729.9	1718.2	1716.4	1732.5	1729.2
3°	1714.5	1703.9	1700.2	1717.1	1714.9
4°	1694.0	1684.1	1680.8	1697.6	1695.8
5°	1665.4	1655.1	1652.9	1669.4	1667.9
6°	1630.1	1621.7	1617.6	1634.2	1631.2
7°	1586.1	1578.4	1574.0	1586.1	1587.6
8°	1528.8	1525.2	1520.0	1532.1	1532.1
9°	1467.9	1464.6	1459.1	1470.1	1470.1
10°	1402.6	1400.4	1393.8	1404.1	1404.1
11°	1331.0	1329.9	1325.2	1333.6	1333.6
12°	1255.8	1258.4	1254.0	1261.3	1258.7
13°	1180.6	1179.5	1179.8	1185.3	1181.3
14°	1095.4	1102.0	1103.1	1106.4	1100.2
15°	1014.0	1022.4	1020.6	1025.3	1017.3
16°	930.7	940.2	939.8	940.9	933.2
17°	852.9	858.4	858.7	857.6	848.1
18°	769.9	777.6	777.6	775.8	764.4
19°	688.8	694.7	698.7	694.7	681.5
20°	615.8	619.8	627.2	616.9	602.2
21°	545.7	549.4	555.6	543.5	527.3
22°	478.5	483.3	489.2	475.2	458.4
23°	415.8	426.8	429.0	409.9	395.6
24°	358.2	370.6	374.3	354.9	339.8
25°	306.8	320.7	329.2	306.4	291.4
26°	262.4	276.0	286.2	263.5	249.2
27°	223.5	237.8	248.4	227.2	213.6
28°	190.1	204.0	215.0	195.2	182.4
29°	165.1	173.2	184.2	167.7	156.0
30°	140.6	149.4	161.1	144.2	133.9
32.5°	96.5	101.3	110.5	100.2	92.1
35°	68.6	71.6	76.0	69.0	64.2
37.5°	48.8	50.3	52.8	48.8	46.2
40°	36.0	36.7	37.8	35.6	34.1
42.5°	26.8	27.2	27.2	26.4	25.7
45°	20.2	20.6	20.2	20.2	19.4
47.5°	14.7	15.8	15.4	15.4	14.3
50°	9.5	11.7	11.7	11.4	9.5
52.5°	5.9	8.1	9.2	8.1	6.2
55°	4.4	5.5	7.0	5.5	4.8
57.5°	4.4	4.4	5.1	4.4	4.4
60°	4.4	4.4	4.4	4.4	4.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	4.0	4.0	4.0	4.0	4.0
70°	4.0	4.0	3.7	4.0	4.0
72.5°	3.7	3.7	3.3	3.7	3.3
75°	2.9	2.9	2.9	2.9	2.9
77.5°	2.2	2.2	2.2	2.2	2.2
80°	1.8	1.8	1.8	1.8	1.8
82.5°	1.1	1.1	1.1	1.5	1.1
85°	0.7	0.7	0.7	0.7	0.7
87.5°	0.4	0.4	0.4	0.4	0.4
90°	0.0	0.0	0.0	0.0	0.0



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







62.5°	4.4	4.4	4.4	4.4	4.4
65°	4.0	4.4	4.0	4.4	4.0



(END OF REPORT)