

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: P283468

Luminaire Tested: **LDA2B058030D010 EU2B05FL408030 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283468
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: LDA2B058030D010 EU2B05FL408030 2LBAPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ PinHole, MMS

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 693.0 lumens
Efficiency: N/A
Efficacy: 99.0 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

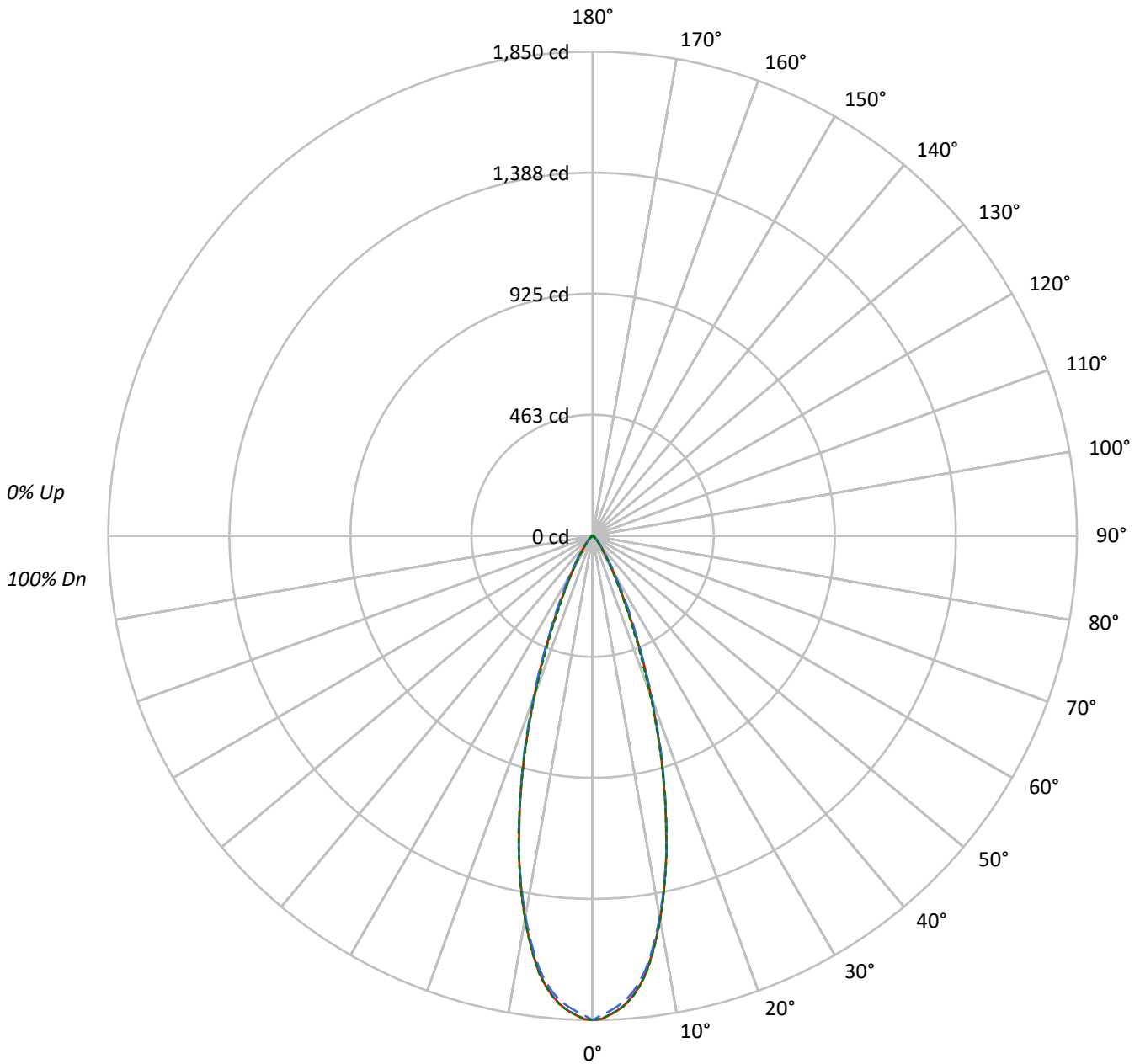
Input Watts (W): 7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					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°	912966	912966	912966
5°	873714	867176	875051
10°	744395	739686	745147
15°	548665	552240	550452
20°	342526	348826	334966
25°	176918	189820	168045
30°	84826	97245	80838
35°	43786	48484	40955
40°	24538	25762	23314
45°	14931	14931	14373
50°	7752	9517	7752
55°	4043	6365	4387
60°	4638	4638	4638
65°	5020	5020	5020
70°	6203	5626	6203
75°	5909	5909	5909
80°	5398	5398	5398
85°	4529	4529	4529



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.2	23.0
10°-20°	292.4	42.2
20°-30°	158.5	22.9
30°-40°	50.9	7.3
40°-50°	17.3	2.5
50°-60°	6.1	0.9
60°-70°	4.5	0.6
70°-80°	3.2	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°	610.1	88.0
0°-40°	660.9	95.4
0°-60°	684.4	98.8
0°-90°	693.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	693.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1850	1850	1850	1850	1850	
5°	1764	1753	1751	1768	1767	160
15°	1074	1083	1081	1086	1078	291
25°	325	340	349	325	309	156
35°	73	76	80	73	68	49
45°	21	22	21	21	21	17
55°	5	6	7	6	5	5
65°	4	5	4	5	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°	1850.5	1850.5	1850.5	1850.5	1850.5
1°	1847.4	1834.2	1832.3	1849.4	1845.5
2°	1832.6	1820.2	1818.3	1835.4	1831.9
3°	1816.3	1805.0	1801.2	1819.0	1816.7
4°	1794.5	1784.1	1780.6	1798.4	1796.5
5°	1764.2	1753.3	1751.0	1768.5	1766.9
6°	1726.9	1718.0	1713.7	1731.2	1728.1
7°	1680.3	1672.1	1667.4	1680.3	1681.8
8°	1619.6	1615.7	1610.3	1623.1	1623.1
9°	1555.1	1551.6	1545.7	1557.4	1557.4
10°	1485.9	1483.5	1476.5	1487.4	1487.4
11°	1410.1	1408.9	1403.8	1412.8	1412.8
12°	1330.4	1333.1	1328.4	1336.2	1333.5
13°	1250.7	1249.5	1249.9	1255.7	1251.4
14°	1160.5	1167.5	1168.6	1172.1	1165.5
15°	1074.2	1083.1	1081.2	1086.2	1077.7
16°	985.9	996.0	995.6	996.8	988.6
17°	903.5	909.3	909.7	908.5	898.4
18°	815.6	823.8	823.8	821.9	809.8
19°	729.7	735.9	740.2	735.9	721.9
20°	652.4	656.6	664.4	653.5	638.0
21°	578.1	582.0	588.6	575.8	558.7
22°	507.0	512.0	518.2	503.5	485.6
23°	440.5	452.1	454.5	434.3	419.1
24°	379.4	392.7	396.5	375.9	360.0
25°	325.0	339.8	348.7	324.6	308.7
26°	278.0	292.4	303.2	279.1	264.0
27°	236.8	251.9	263.2	240.6	226.3
28°	201.4	216.2	227.8	206.8	193.2
29°	174.9	183.5	195.2	177.7	165.2
30°	148.9	158.2	170.7	152.8	141.9
32.5°	102.2	107.3	117.0	106.1	97.6
35°	72.7	75.8	80.5	73.1	68.0
37.5°	51.7	53.3	56.0	51.7	49.0
40°	38.1	38.9	40.0	37.7	36.2
42.5°	28.4	28.8	28.8	28.0	27.2
45°	21.4	21.8	21.4	21.4	20.6
47.5°	15.6	16.7	16.3	16.3	15.2
50°	10.1	12.4	12.4	12.1	10.1
52.5°	6.2	8.6	9.7	8.6	6.6
55°	4.7	5.8	7.4	5.8	5.1
57.5°	4.7	4.7	5.4	4.7	4.7
60°	4.7	4.7	4.7	4.7	4.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	4.3	4.3	4.3	4.3	4.3
70°	4.3	4.3	3.9	4.3	4.3
72.5°	3.9	3.9	3.5	3.9	3.5
75°	3.1	3.1	3.1	3.1	3.1
77.5°	2.3	2.3	2.3	2.3	2.3
80°	1.9	1.9	1.9	1.9	1.9
82.5°	1.2	1.2	1.2	1.6	1.2
85°	0.8	0.8	0.8	0.8	0.8
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°	4.7	4.7	4.7	4.7	4.7
65°	4.3	4.7	4.3	4.7	4.3



(END OF REPORT)