

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: P281634

Luminaire Tested: **LDA2B059035D010 EU2B05SP159035 2LBAPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P281634
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1808-908-10)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B059035D010 EU2B05SP159035 2LBAPINSQ1MW
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH SPOT OPTIC AND 2in Adj SQ PinHole, MW
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 666.9 lumens
Efficiency: N/A
Efficacy: 95.3 lumens/watt
Spacing Criteria (0/90/45): 0.3 / 0.3 / 0.29
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

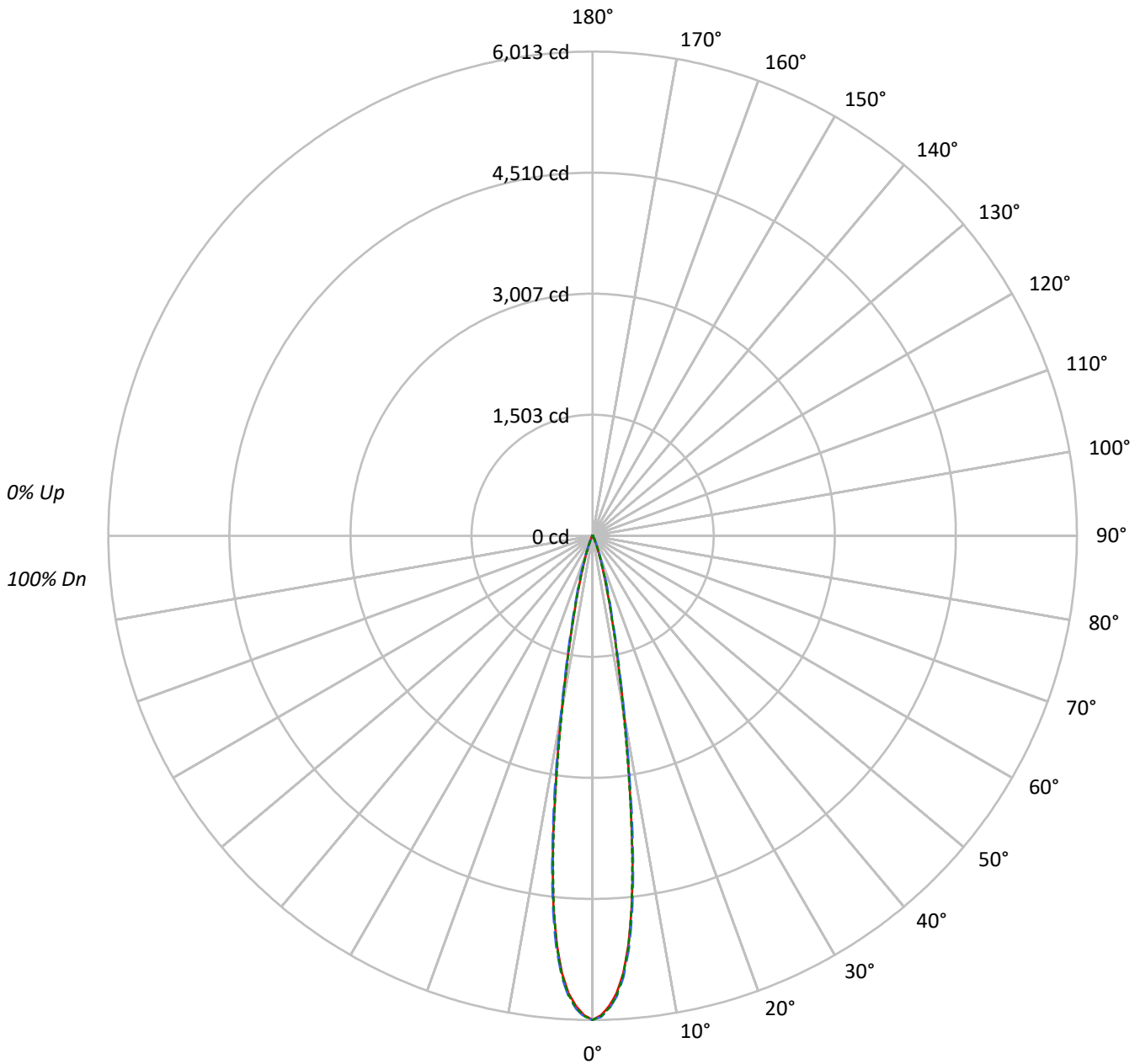
Input Watts (W): 7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98						98													
2	113	110	107	105	111	108	106	104	105	103	102	102	101	99	99	98	97	96						96													
3	110	106	103	101	108	105	102	100	102	100	98	100	98	97	98	97	95	94						94													
4	107	103	100	97	106	102	99	97	100	98	96	98	96	95	97	95	94	93						93													
5	105	100	97	95	104	100	96	94	98	95	93	97	94	93	95	93	92	91						91													
6	103	98	95	92	102	97	94	92	96	93	91	95	93	91	94	92	90	89						89													
7	101	96	93	90	100	95	92	90	94	92	90	93	91	89	93	90	89	88						88													
8	99	94	91	89	98	94	91	88	93	90	88	92	90	88	91	89	88	87						87													
9	98	92	89	87	97	92	89	87	91	89	87	91	88	86	90	88	86	85						85													
10	96	91	88	86	95	90	88	86	90	87	85	89	87	85	89	87	85	84						84													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2966436	2966436	2966436
5°	2526004	2552351	2530808
10°	1115215	1140715	1089165
15°	338382	388131	343694
20°	101225	134984	113143
25°	39466	38813	41481
30°	17546	15894	16749
35°	3553	3132	3132
40°	0	258	966
45°	3140	2582	4675
50°	0	844	2840
55°	0	0	1290
60°	0	395	1480
65°	0	0	817
70°	0	2164	4327
75°	0	0	0
80°	0	0	0
85°	0	2264	8491



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	389.8	58.4
10°-20°	222.6	33.4
20°-30°	42.3	6.3
30°-40°	7.7	1.2
40°-50°	2.0	0.3
50°-60°	1.5	0.2
60°-70°	0.2	0.0
70°-80°	0.3	0.1
80°-90°	0.5	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°	654.7	98.2
0°-40°	662.3	99.3
0°-60°	665.8	99.8
0°-90°	666.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	666.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6013	6013	6013	6013	6013	
5°	5100	5134	5154	5145	5110	387
15°	662	720	760	714	673	211
25°	72	78	71	81	76	38
35°	6	7	5	6	5	8
45°	4	7	4	4	7	2
55°	0	0	0	0	2	0
65°	0	0	0	0	1	0
75°	0	0	0	0	0	0
85°	0	0	0	0	2	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6012.7	6012.7	6012.7	6012.7	6012.7
1°	5955.9	5962.2	5975.6	5989.3	5967.8
2°	5844.4	5859.7	5878.6	5891.2	5867.8
3°	5688.4	5709.5	5729.6	5732.2	5710.3
4°	5447.2	5473.2	5494.4	5491.8	5464.3
5°	5100.5	5134.0	5153.7	5144.8	5110.2
6°	4642.4	4674.7	4700.0	4674.4	4627.9
7°	4071.7	4108.8	4135.6	4091.7	4034.9
8°	3410.3	3462.3	3489.0	3427.7	3369.4
9°	2783.8	2819.8	2847.0	2780.1	2720.6
10°	2226.1	2292.2	2277.0	2225.3	2174.1
11°	1750.8	1810.7	1813.3	1778.3	1728.2
12°	1370.7	1433.9	1449.9	1423.1	1378.5
13°	1083.1	1130.3	1156.7	1129.2	1086.8
14°	862.0	904.0	937.8	902.2	859.8
15°	662.5	720.5	759.9	713.8	672.9
16°	526.9	574.8	621.6	569.2	536.5
17°	404.6	447.4	495.7	448.1	421.4
18°	320.3	354.1	407.2	358.2	334.8
19°	250.8	276.4	325.9	282.8	263.8
20°	192.8	221.1	257.1	227.8	215.5
22.5°	116.7	132.3	142.7	133.8	127.4
25°	72.5	78.0	71.3	81.4	76.2
26°	63.2	67.3	65.8	72.5	66.1
27°	50.5	55.7	51.6	56.9	55.0
28°	46.1	52.4	44.2	50.5	47.6
29°	32.3	34.9	31.6	33.8	33.8
30°	30.8	31.6	27.9	30.5	29.4
32.5°	24.2	22.7	18.6	19.7	19.0
35°	5.9	7.4	5.2	6.3	5.2
37.5°	8.9	8.2	9.7	9.3	8.9
40°	0.0	0.4	0.4	0.4	1.5
42.5°	6.7	4.1	3.7	2.6	4.5
45°	4.5	7.1	3.7	4.1	6.7
47.5°	0.0	0.4	0.0	0.7	0.7
50°	0.0	0.7	1.1	1.5	3.7
52.5°	0.7	4.5	2.2	4.1	5.9
55°	0.0	0.4	0.0	0.4	1.5
57.5°	1.5	0.7	1.5	1.5	6.7
60°	0.0	0.7	0.4	0.4	1.5
62.5°	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.7
67.5°	0.0	0.4	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.4	0.0	0.0
80°	0.0	0.4	0.0	0.0	0.0
82.5°	0.0	0.4	0.7	1.1	0.7
85°	0.0	0.4	0.4	0.4	1.5
87.5°	0.0	0.7	1.1	0.0	0.7
90°	0.0	0.0	0.0	0.0	0.0



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







70°	0.0	1.1	1.5	0.0	3.0
72.5°	0.0	1.9	0.4	0.4	0.0



(END OF REPORT)