

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: P281501

Luminaire Tested: **LDA2B109024D010 EU2B10SP159024 2LBASQC1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P281501
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1808-908-6)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B109024D010 EU2B10SP159024 2LBASQC1MMS
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH SPOT OPTIC AND 2in Adj SQ Cast Trim, MMS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 776.3 lumens
Efficiency: N/A
Efficacy: 77.6 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.31 / 0.29
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

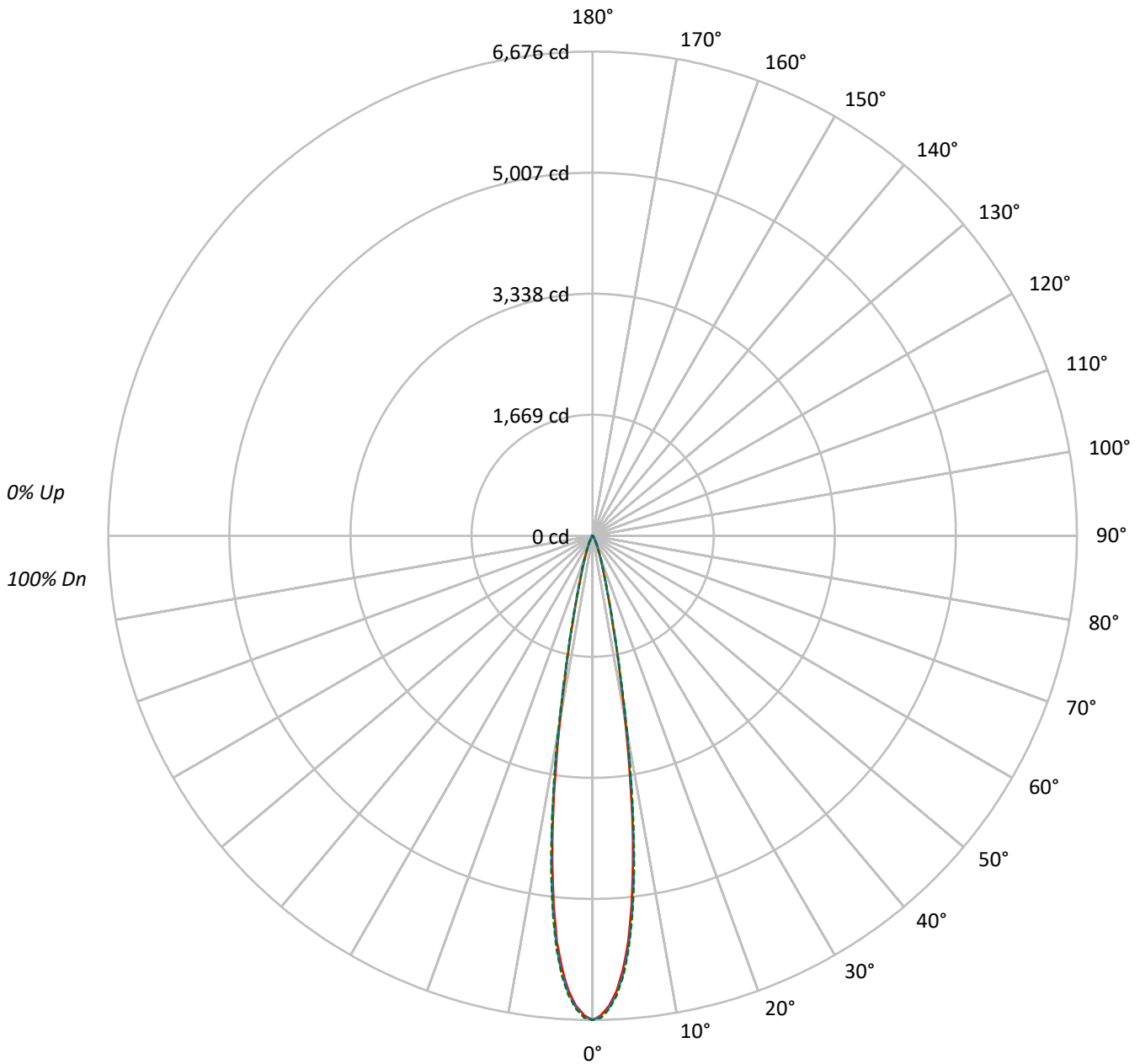
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P281501

CATALOG NUMBER: LDA2B109024D010 EU2B10SP159024 2LBASQC1MMS

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	116	114	112	111	113	112	110	109	108	107	106	104	103	102	101	100	99	98	98	99	98																
2	113	109	107	105	111	108	105	103	105	103	101	102	100	99	99	98	97	96	96	97	96																
3	110	106	103	100	108	104	102	99	102	100	98	100	98	96	98	96	95	94	96	95	94																
4	107	103	99	97	106	102	99	96	100	97	95	98	96	94	96	95	93	92	96	95	92																
5	105	100	96	94	103	99	96	93	98	95	93	96	94	92	95	93	91	90	95	93	90																
6	103	97	94	91	101	97	94	91	96	93	91	94	92	90	93	91	90	89	93	91	89																
7	101	95	92	89	100	95	91	89	94	91	89	93	90	88	92	90	88	87	92	90	87																
8	99	93	90	88	98	93	90	87	92	89	87	91	89	87	90	88	87	86	90	88	86																
9	97	91	88	86	96	91	88	86	90	88	86	90	87	85	89	87	85	84	89	87	84																
10	95	90	87	84	94	89	86	84	89	86	84	88	86	84	88	85	84	83	88	85	83																

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3293585	3293585	3293585
5°	2787593	2816763	2828996
10°	1303531	1352927	1355532
15°	381797	387365	387160
20°	153307	153517	153727
25°	68372	75286	70005
30°	29054	39935	26490
35°	13310	18490	12407
40°	4315	7213	3864
45°	0	2582	0
50°	0	0	0
55°	1290	602	0
60°	0	0	0
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	1989	0	0
85°	3962	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	441.2	56.8
10°-20°	250.0	32.2
20°-30°	65.3	8.4
30°-40°	16.8	2.2
40°-50°	1.7	0.2
50°-60°	0.5	0.1
60°-70°	0.1	0.0
70°-80°	0.5	0.1
80°-90°	0.1	0.0
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°	756.5	97.5
0°-40°	773.4	99.6
0°-60°	775.5	99.9
0°-90°	776.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	776.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6676	6676	6676	6676	6676	
5°	5629	5679	5688	5652	5712	436
15°	748	758	758	750	758	245
25°	126	136	138	132	129	62
35°	22	24	31	21	21	15
45°	0	2	4	0	0	1
55°	2	2	1	0	0	1
65°	0	0	0	0	0	0
75°	0	0	0	0	0	1
85°	1	0	0	0	0	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6675.8	6675.8	6675.8	6675.8	6675.8
1°	6613.2	6639.4	6631.5	6622.2	6648.4
2°	6485.7	6511.2	6508.9	6496.6	6527.3
3°	6289.3	6324.9	6324.9	6306.5	6344.7
4°	5996.5	6050.8	6056.1	6030.2	6077.8
5°	5628.7	5679.0	5687.6	5651.6	5712.3
6°	5130.5	5199.1	5218.6	5177.0	5239.2
7°	4558.1	4630.1	4659.7	4613.2	4682.9
8°	3940.7	3992.4	4028.0	3974.8	4045.6
9°	3249.8	3324.4	3357.0	3305.3	3374.2
10°	2602.0	2670.6	2700.6	2688.2	2705.8
11°	2020.9	2081.7	2101.9	2085.1	2093.3
12°	1582.3	1606.7	1619.8	1608.6	1614.2
13°	1201.5	1234.1	1240.1	1235.2	1237.8
14°	938.3	954.1	960.8	958.6	959.7
15°	747.5	757.6	758.4	749.7	758.0
16°	602.0	609.9	613.3	604.3	615.2
17°	493.3	499.7	503.5	494.5	499.0
18°	406.0	410.9	416.1	408.2	415.0
19°	340.8	343.8	344.1	341.9	343.8
20°	292.0	290.5	292.4	288.3	292.8
22.5°	192.3	196.1	200.6	195.7	197.6
25°	125.6	136.1	138.3	132.0	128.6
26°	103.5	117.0	123.0	112.8	102.0
27°	85.8	95.6	103.5	90.0	81.3
28°	75.3	83.6	91.5	78.7	68.6
29°	63.0	71.2	84.7	70.1	63.7
30°	51.0	57.0	70.1	53.2	46.5
32.5°	28.9	33.7	45.4	31.5	25.9
35°	22.1	23.6	30.7	21.0	20.6
37.5°	19.1	17.2	24.0	17.2	13.9
40°	6.7	10.1	11.2	7.5	6.0
42.5°	3.0	3.0	4.9	1.5	1.5
45°	0.0	1.5	3.7	0.4	0.0
47.5°	0.0	0.0	0.7	0.0	0.0
50°	0.0	0.7	0.0	0.0	0.0
52.5°	0.7	0.0	0.0	0.0	0.0
55°	1.5	1.9	0.7	0.4	0.0
57.5°	2.2	1.9	0.7	0.7	0.7
60°	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0
67.5°	0.7	0.4	0.0	0.0	0.0



TEST NUMBER: P281501

CATALOG NUMBER: LDA2B109024D010 EU2B10SP159024 2LBASQC1MMS

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
75°	0.0	0.4	0.0	0.0	0.0
77.5°	3.7	0.7	1.1	0.7	1.5
80°	0.7	0.0	0.0	0.0	0.0
82.5°	1.5	0.0	0.0	0.0	0.0
85°	0.7	0.0	0.0	0.0	0.0
87.5°	0.0	0.4	0.0	0.4	0.0
90°	0.0	0.0	0.0	0.0	0.0



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







70°	0.0	0.0	0.0	0.0	0.0
72.5°	1.5	1.1	0.0	0.0	1.5



(END OF REPORT)