

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: P281491

Luminaire Tested: **LDA2B108035D010 EU2B10SP158035 2LBASQC1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P281491
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: LDA2B108035D010 EU2B10SP158035 2LBASQC1MB
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH SPOT OPTIC AND 2in Adj SQ Cast Trim, MB
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1093.9 lumens
Efficiency: N/A
Efficacy: 109.4 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

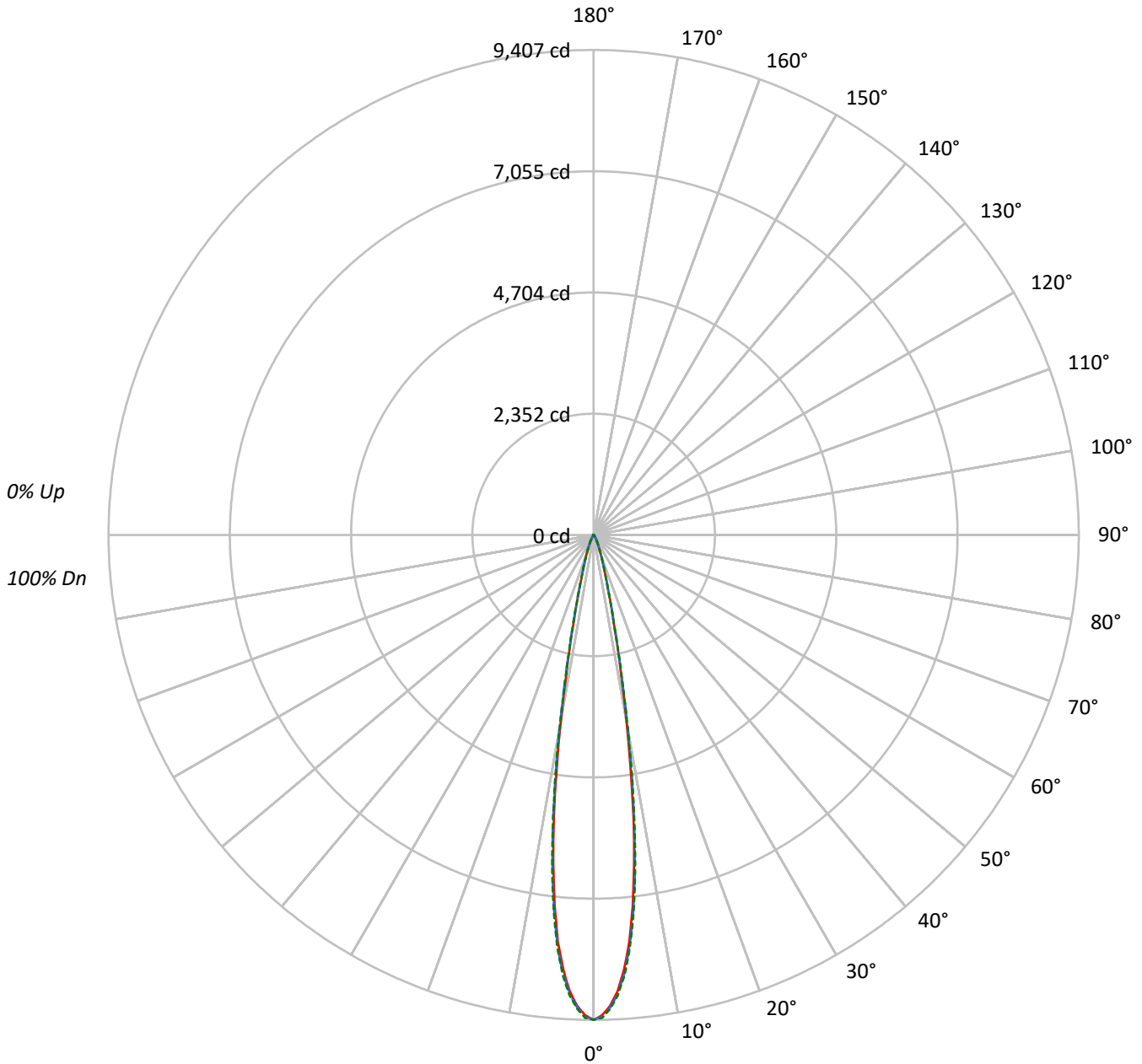
Input Watts (W): 10
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4641054	4641054	4641054
5°	3928096	3969201	3986436
10°	1836866	1906452	1910159
15°	537990	545804	545549
20°	216048	216310	216625
25°	96353	106097	98639
30°	40903	56285	37314
35°	18791	26079	17526
40°	6118	10176	5474
45°	0	3698	0
50°	0	0	0
55°	1806	946	0
60°	0	0	0
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	3125	0	0
85°	6227	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	621.7	56.8
10°-20°	352.3	32.2
20°-30°	92.0	8.4
30°-40°	23.7	2.2
40°-50°	2.3	0.2
50°-60°	0.8	0.1
60°-70°	0.1	0.0
70°-80°	0.8	0.1
80°-90°	0.2	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°	1066.1	97.5
0°-40°	1089.8	99.6
0°-60°	1092.9	99.9
0°-90°	1094.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1093.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9407	9407	9407	9407	9407	
5°	7932	8002	8015	7964	8049	614
15°	1053	1068	1069	1056	1068	346
25°	177	192	195	186	181	88
35°	31	33	43	30	29	21
45°	0	2	5	0	0	2
55°	2	3	1	0	0	1
65°	0	0	0	0	0	1
75°	0	0	0	0	0	2
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°	9407.0	9407.0	9407.0	9407.0	9407.0
1°	9318.8	9355.8	9344.7	9331.5	9368.5
2°	9139.2	9175.1	9172.0	9154.5	9197.8
3°	8862.4	8912.6	8912.6	8886.7	8940.6
4°	8449.8	8526.4	8533.8	8497.4	8564.5
5°	7931.6	8002.4	8014.6	7963.9	8049.4
6°	7229.6	7326.3	7353.7	7295.1	7382.8
7°	6423.0	6524.4	6566.1	6500.6	6598.9
8°	5552.9	5625.8	5676.0	5601.0	5700.8
9°	4579.4	4684.5	4730.5	4657.6	4754.8
10°	3666.6	3763.2	3805.5	3788.1	3812.9
11°	2847.8	2933.4	2961.9	2938.1	2949.7
12°	2229.7	2264.1	2282.6	2266.7	2274.6
13°	1693.0	1739.0	1747.4	1740.6	1744.3
14°	1322.2	1344.4	1353.9	1350.7	1352.3
15°	1053.3	1067.6	1068.6	1056.5	1068.1
16°	848.4	859.5	864.2	851.5	866.9
17°	695.2	704.2	709.4	696.8	703.1
18°	572.1	579.0	586.4	575.3	584.8
19°	480.2	484.4	484.9	481.8	484.4
20°	411.5	409.4	412.0	406.2	412.6
22.5°	271.0	276.3	282.6	275.7	278.4
25°	177.0	191.8	194.9	185.9	181.2
26°	145.8	164.8	173.3	159.0	143.7
27°	121.0	134.7	145.8	126.8	114.6
28°	106.2	117.8	128.9	110.9	96.7
29°	88.7	100.4	119.4	98.8	89.8
30°	71.8	80.3	98.8	75.0	65.5
32.5°	40.7	47.5	63.9	44.4	36.4
35°	31.2	33.3	43.3	29.6	29.1
37.5°	26.9	24.3	33.8	24.3	19.5
40°	9.5	14.3	15.8	10.6	8.5
42.5°	4.2	4.2	6.9	2.1	2.1
45°	0.0	2.1	5.3	0.5	0.0
47.5°	0.0	0.0	1.1	0.0	0.0
50°	0.0	1.1	0.0	0.0	0.0
52.5°	1.1	0.0	0.0	0.0	0.0
55°	2.1	2.6	1.1	0.5	0.0
57.5°	3.2	2.6	1.1	1.1	1.1
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°	1.1	0.5	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
75°	0.0	0.5	0.0	0.0	0.0
77.5°	5.3	1.1	1.6	1.1	2.1
80°	1.1	0.0	0.0	0.0	0.0
82.5°	2.1	0.0	0.0	0.0	0.0
85°	1.1	0.0	0.0	0.0	0.0
87.5°	0.0	0.5	0.0	0.5	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°	2.1	1.6	0.0	0.0	2.1



(END OF REPORT)