

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: P281486

Luminaire Tested: **LDA2B108027D010 EU2B10SP158027 2LBASQC1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P281486
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: LDA2B108027D010 EU2B10SP158027 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: 1061.4 lumens
Efficiency: N/A
Efficacy: 106.1 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

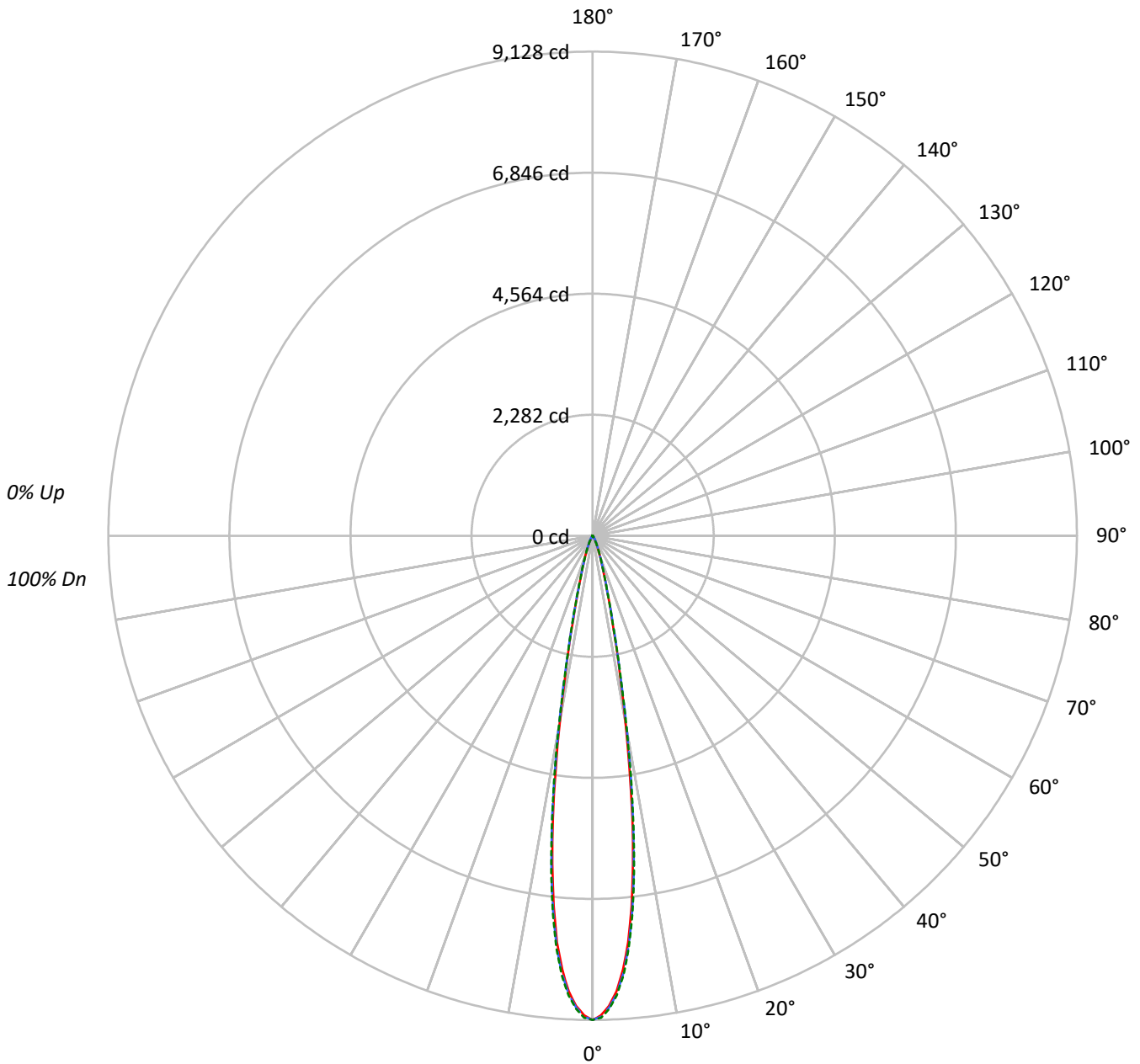
Input Watts (W): 10
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P281486

CATALOG NUMBER: LDA2B108027D010 EU2B10SP158027 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	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	102	101	100	99	98	97	96						98											
2	113	109	107	105	111	108	105	103	105	103	101	102	100	99	99	98	97	96	95	94						96											
3	110	106	103	100	108	104	102	99	102	100	98	100	98	96	98	96	95	94	93	92						94											
4	107	103	99	97	106	102	99	96	100	97	95	98	96	94	96	95	93	92	91	90						92											
5	105	100	96	94	103	99	96	93	98	95	93	96	94	92	95	93	91	90	89	88						90											
6	103	97	94	91	101	97	94	91	96	93	91	94	92	90	93	91	90	89	88	87						89											
7	100	95	92	89	100	95	91	89	94	91	89	93	90	88	92	90	88	87	86	85						87											
8	99	93	90	88	98	93	90	87	92	89	87	91	89	87	90	88	86	85	84	83						86											
9	97	91	88	86	96	91	88	86	90	88	86	90	87	85	89	87	85	84	83	82						84											
10	95	90	87	84	94	89	86	84	89	86	84	88	86	84	88	85	84	83	82	81						83											

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4503308	4503308	4503308
5°	3811515	3851382	3868122
10°	1782311	1849842	1853449
15°	522054	529613	529358
20°	209642	209905	210167
25°	93467	102939	95699
30°	39707	54633	36232
35°	18189	25296	16984
40°	5925	9918	5281
45°	0	3558	0
50°	0	0	0
55°	1806	860	0
60°	0	0	0
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	2841	0	0
85°	5661	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	603.2	56.8
10°-20°	341.9	32.2
20°-30°	89.3	8.4
30°-40°	23.0	2.2
40°-50°	2.3	0.2
50°-60°	0.7	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°	1034.4	97.5
0°-40°	1057.4	99.6
0°-60°	1060.4	99.9
0°-90°	1061.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1061.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9128	9128	9128	9128	9128	
5°	7696	7765	7777	7728	7810	596
15°	1022	1036	1037	1025	1036	336
25°	172	186	189	180	176	85
35°	30	32	42	29	28	21
45°	0	2	5	0	0	2
55°	2	3	1	0	0	1
65°	0	0	0	0	0	0
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°	9127.8	9127.8	9127.8	9127.8	9127.8
1°	9042.2	9078.1	9067.3	9054.5	9090.4
2°	8867.9	8902.8	8899.7	8882.8	8924.8
3°	8599.3	8648.0	8648.0	8622.9	8675.2
4°	8199.0	8273.4	8280.5	8245.2	8310.3
5°	7696.2	7764.9	7776.7	7727.5	7810.5
6°	7015.0	7108.8	7135.5	7078.6	7163.6
7°	6232.3	6330.7	6371.2	6307.7	6403.0
8°	5388.1	5458.8	5507.5	5434.8	5531.6
9°	4443.4	4545.4	4590.0	4519.3	4613.6
10°	3557.7	3651.5	3692.5	3675.6	3699.7
11°	2763.3	2846.3	2874.0	2850.9	2862.2
12°	2163.5	2196.9	2214.8	2199.4	2207.1
13°	1642.8	1687.4	1695.6	1688.9	1692.5
14°	1283.0	1304.5	1313.7	1310.6	1312.2
15°	1022.1	1035.9	1036.9	1025.1	1036.4
16°	823.2	833.9	838.6	826.3	841.1
17°	674.5	683.3	688.4	676.1	682.2
18°	555.1	561.8	569.0	558.2	567.4
19°	465.9	470.0	470.5	467.5	470.0
20°	399.3	397.2	399.8	394.2	400.3
22.5°	262.9	268.1	274.2	267.6	270.1
25°	171.7	186.1	189.1	180.4	175.8
26°	141.5	159.9	168.1	154.3	139.4
27°	117.4	130.7	141.5	123.0	111.2
28°	103.0	114.3	125.1	107.6	93.8
29°	86.1	97.4	115.8	95.9	87.1
30°	69.7	77.9	95.9	72.8	63.6
32.5°	39.5	46.1	62.0	43.1	35.4
35°	30.2	32.3	42.0	28.7	28.2
37.5°	26.1	23.6	32.8	23.6	19.0
40°	9.2	13.8	15.4	10.3	8.2
42.5°	4.1	4.1	6.7	2.1	2.1
45°	0.0	2.1	5.1	0.5	0.0
47.5°	0.0	0.0	1.0	0.0	0.0
50°	0.0	1.0	0.0	0.0	0.0
52.5°	1.0	0.0	0.0	0.0	0.0
55°	2.1	2.6	1.0	0.5	0.0
57.5°	3.1	2.6	1.0	1.0	1.0
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°	1.0	0.5	0.0	0.0	0.0



TEST NUMBER: P281486

CATALOG NUMBER: LDA2B108027D010 EU2B10SP158027 2LBASQC1MMS

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
75°	0.0	0.5	0.0	0.0	0.0
77.5°	5.1	1.0	1.5	1.0	2.1
80°	1.0	0.0	0.0	0.0	0.0
82.5°	2.1	0.0	0.0	0.0	0.0
85°	1.0	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	1.5	0.0	0.0	2.1



(END OF REPORT)