

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: P281495

Luminaire Tested: **LDA2B108040D010 EU2B10SP158040 2LBASQC1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P281495
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: LDA2B108040D010 EU2B10SP158040 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: 1138.6 lumens
Efficiency: N/A
Efficacy: 113.9 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

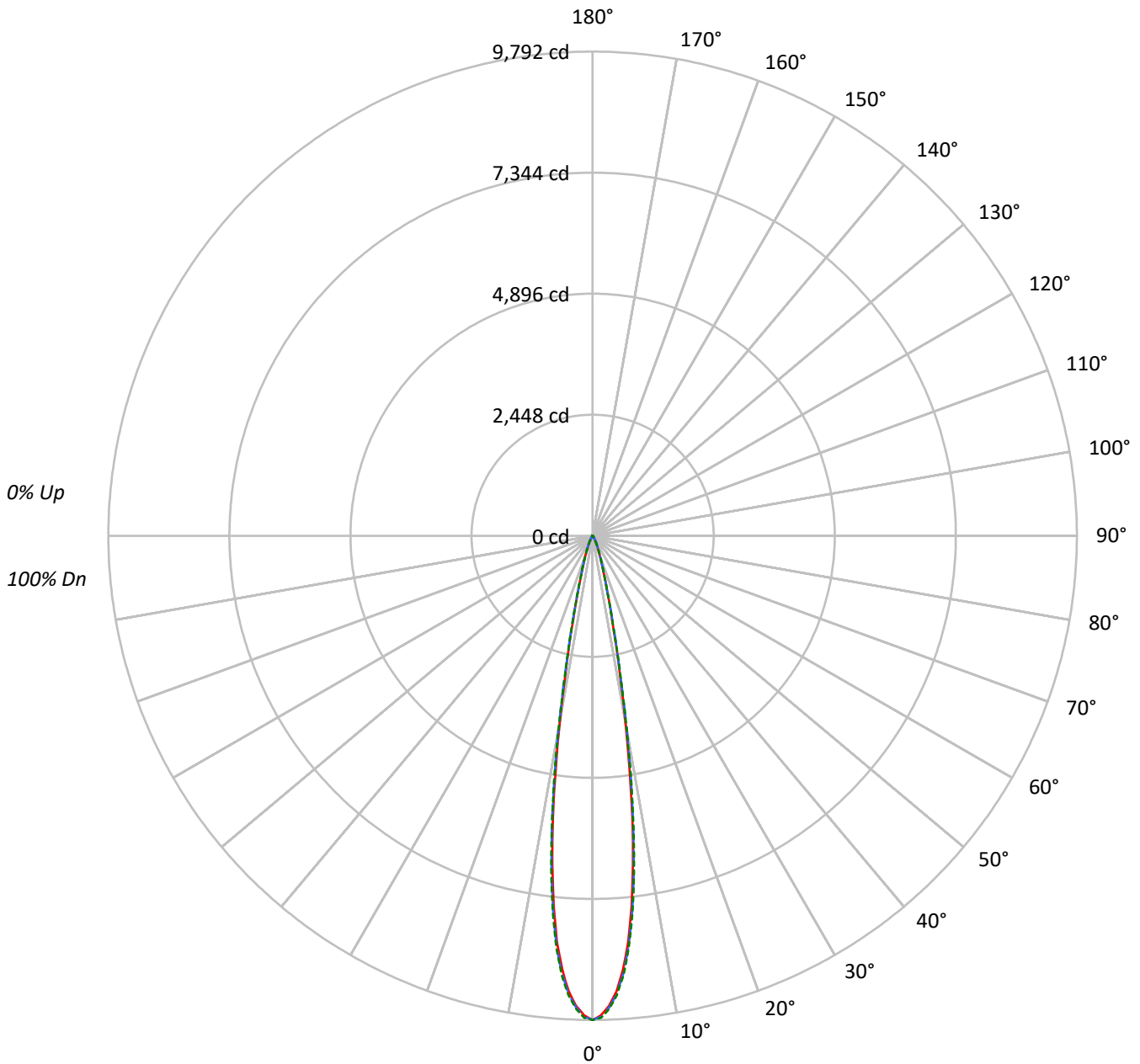
Input Watts (W): 10
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	98	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	101	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	87	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°	4830900	4830900	4830900
5°	4088754	4131543	4149521
10°	1911962	1984403	1988260
15°	560004	568176	567869
20°	224868	225183	225446
25°	100272	110452	102667
30°	42612	58564	38853
35°	19514	27163	18189
40°	6376	10627	5668
45°	0	3837	0
50°	0	0	0
55°	1892	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°	647.1	56.8
10°-20°	366.8	32.2
20°-30°	95.8	8.4
30°-40°	24.7	2.2
40°-50°	2.4	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°	1109.7	97.5
0°-40°	1134.3	99.6
0°-60°	1137.6	99.9
0°-90°	1138.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1138.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9792	9792	9792	9792	9792	
5°	8256	8330	8342	8290	8379	639
15°	1096	1111	1112	1100	1112	360
25°	184	200	203	194	189	92
35°	32	35	45	31	30	22
45°	0	2	6	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°	9791.8	9791.8	9791.8	9791.8	9791.8
1°	9700.0	9738.4	9726.9	9713.2	9751.6
2°	9513.0	9550.4	9547.1	9529.0	9574.0
3°	9224.9	9277.1	9277.1	9250.2	9306.3
4°	8795.5	8875.2	8882.9	8844.9	8914.8
5°	8256.0	8329.7	8342.4	8289.6	8378.7
6°	7525.3	7625.9	7654.5	7593.5	7684.7
7°	6685.7	6791.2	6834.7	6766.5	6868.8
8°	5780.1	5855.9	5908.2	5830.1	5934.0
9°	4766.7	4876.1	4923.9	4848.1	4949.2
10°	3816.5	3917.2	3961.1	3943.0	3968.8
11°	2964.3	3053.3	3083.0	3058.3	3070.4
12°	2320.9	2356.7	2375.9	2359.4	2367.7
13°	1762.3	1810.1	1818.9	1811.8	1815.6
14°	1376.3	1399.4	1409.3	1406.0	1407.6
15°	1096.4	1111.3	1112.4	1099.7	1111.8
16°	883.1	894.6	899.6	886.4	902.3
17°	723.6	733.0	738.5	725.3	731.9
18°	595.5	602.6	610.3	598.8	608.7
19°	499.8	504.2	504.8	501.5	504.2
20°	428.3	426.1	428.9	422.8	429.4
22.5°	282.1	287.6	294.2	287.0	289.8
25°	184.2	199.6	202.9	193.5	188.6
26°	151.8	171.6	180.4	165.5	149.6
27°	125.9	140.2	151.8	132.0	119.3
28°	110.5	122.6	134.2	115.5	100.6
29°	92.4	104.5	124.3	102.8	93.5
30°	74.8	83.6	102.8	78.1	68.2
32.5°	42.3	49.5	66.5	46.2	37.9
35°	32.4	34.6	45.1	30.8	30.2
37.5°	28.0	25.3	35.2	25.3	20.3
40°	9.9	14.8	16.5	11.0	8.8
42.5°	4.4	4.4	7.1	2.2	2.2
45°	0.0	2.2	5.5	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°	2.2	2.7	1.1	0.5	0.0
57.5°	3.3	2.7	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°	5.5	1.1	1.6	1.1	2.2
80°	1.1	0.0	0.0	0.0	0.0
82.5°	2.2	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°	2.2	1.6	0.0	0.0	2.2



(END OF REPORT)