

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: P281600

Luminaire Tested: **LDA2B209050D010 EU2B20SP159050 2LBASQC1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P281600
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: LDA2B209050D010 EU2B20SP159050 2LBASQC1MMS
Description: PORTFOLIO 2IN ADJ 2000 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: 1759.6 lumens
Efficiency: N/A
Efficacy: 85.4 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

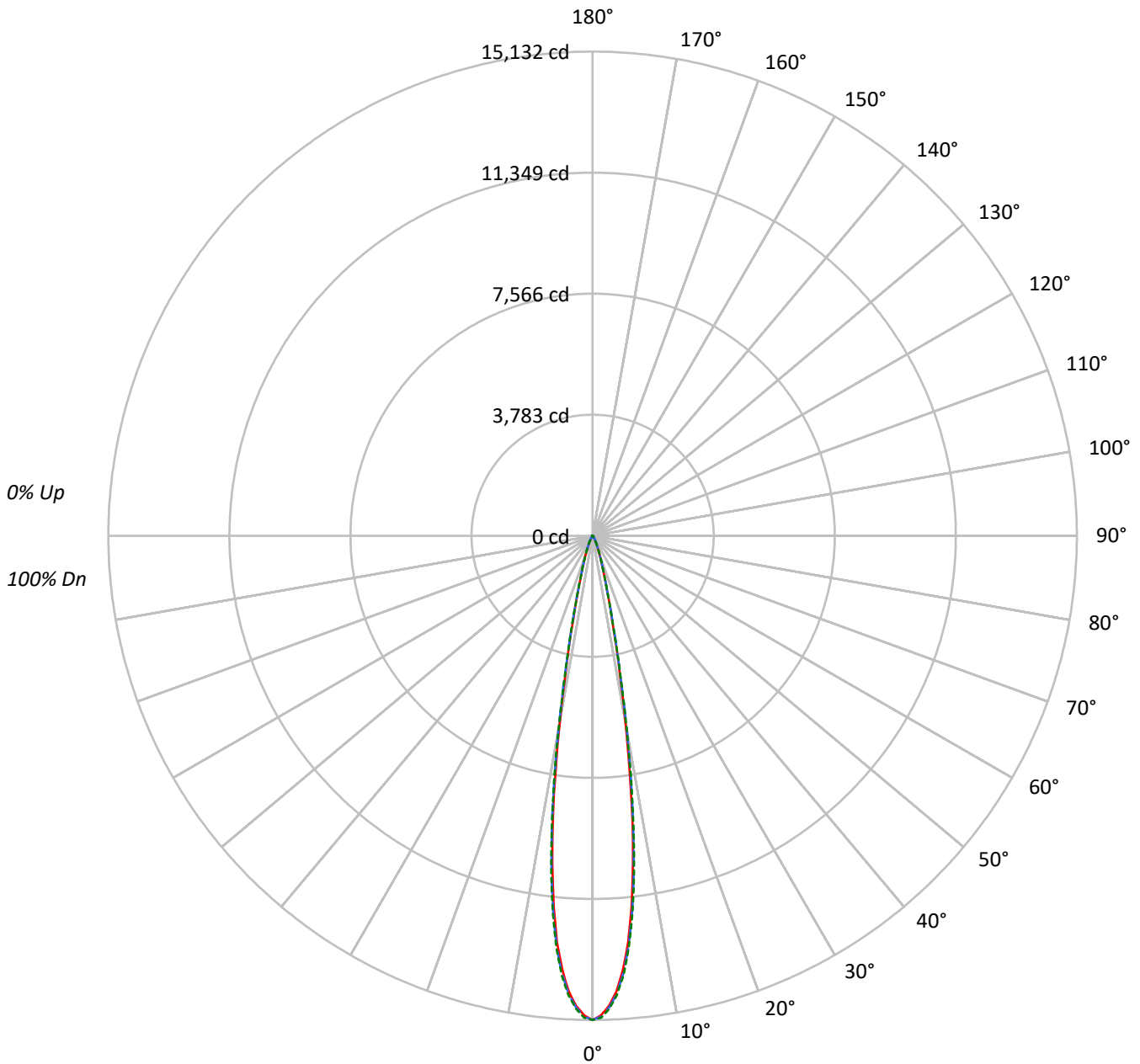
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	100	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	86	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°	7465403	7465403	7465403
5°	6318551	6384617	6412400
10°	2954687	3066604	3072566
15°	865390	878006	877547
20°	347514	347986	348406
25°	154981	170658	158682
30°	65856	90523	60045
35°	30174	41979	28127
40°	9854	16423	8759
45°	0	5931	0
50°	0	0	0
55°	2925	1462	0
60°	0	0	0
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	4830	0	0
85°	9623	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1000.0	56.8
10°-20°	566.8	32.2
20°-30°	148.0	8.4
30°-40°	38.2	2.2
40°-50°	3.8	0.2
50°-60°	1.2	0.1
60°-70°	0.2	0.0
70°-80°	1.3	0.1
80°-90°	0.3	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°	1714.8	97.5
0°-40°	1753.0	99.6
0°-60°	1757.9	99.9
0°-90°	1759.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1759.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	15132	15132	15132	15132	15132	
5°	12758	12872	12892	12810	12948	987
15°	1694	1717	1719	1699	1718	556
25°	285	308	314	299	292	142
35°	50	54	70	48	47	34
45°	0	3	8	1	0	3
55°	3	4	2	1	0	2
65°	0	0	0	0	0	1
75°	0	1	0	0	0	3
85°	2	0	0	0	0	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	15131.7	15131.7	15131.7	15131.7	15131.7
1°	14989.8	15049.3	15031.4	15010.2	15069.7
2°	14700.9	14758.7	14753.6	14725.5	14795.2
3°	14255.6	14336.4	14336.4	14294.7	14381.4
4°	13592.0	13715.2	13727.1	13668.5	13776.4
5°	12758.4	12872.3	12891.8	12810.3	12947.9
6°	11629.2	11784.7	11828.9	11734.5	11875.6
7°	10331.7	10494.8	10561.9	10456.6	10614.6
8°	8932.2	9049.4	9130.2	9009.5	9170.1
9°	7366.2	7535.3	7609.2	7491.9	7648.3
10°	5897.9	6053.4	6121.3	6093.3	6133.2
11°	4580.8	4718.5	4764.3	4726.1	4744.8
12°	3586.6	3641.9	3671.6	3646.1	3658.9
13°	2723.3	2797.3	2810.9	2799.8	2805.8
14°	2126.8	2162.5	2177.8	2172.7	2175.3
15°	1694.3	1717.3	1719.0	1699.4	1718.1
16°	1364.6	1382.5	1390.1	1369.7	1394.4
17°	1118.2	1132.7	1141.2	1120.8	1131.0
18°	920.2	931.3	943.2	925.3	940.6
19°	772.4	779.2	780.0	774.9	779.2
20°	661.9	658.5	662.8	653.4	663.6
22.5°	435.9	444.4	454.6	443.6	447.8
25°	284.7	308.4	313.5	299.1	291.5
26°	234.5	265.1	278.7	255.8	231.1
27°	194.6	216.7	234.5	203.9	184.4
28°	170.8	189.5	207.3	178.4	155.5
29°	142.8	161.4	192.0	158.9	144.5
30°	115.6	129.2	158.9	120.7	105.4
32.5°	65.4	76.5	102.8	71.4	58.6
35°	50.1	53.5	69.7	47.6	46.7
37.5°	43.3	39.1	54.4	39.1	31.4
40°	15.3	22.9	25.5	17.0	13.6
42.5°	6.8	6.8	11.0	3.4	3.4
45°	0.0	3.4	8.5	0.8	0.0
47.5°	0.0	0.0	1.7	0.0	0.0
50°	0.0	1.7	0.0	0.0	0.0
52.5°	1.7	0.0	0.0	0.0	0.0
55°	3.4	4.2	1.7	0.8	0.0
57.5°	5.1	4.2	1.7	1.7	1.7
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°	1.7	0.8	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
75°	0.0	0.8	0.0	0.0	0.0
77.5°	8.5	1.7	2.5	1.7	3.4
80°	1.7	0.0	0.0	0.0	0.0
82.5°	3.4	0.0	0.0	0.0	0.0
85°	1.7	0.0	0.0	0.0	0.0
87.5°	0.0	0.8	0.0	0.8	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°	3.4	2.5	0.0	0.0	3.4



(END OF REPORT)