

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: P314863

Luminaire Tested: **LDA2B20SP9727D010 PIN1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P314863
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1808-908-8)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B20SP9727D010 PIN1MMS
Description: PORTFOLIO 2IN ADJ 2000 LUMEN LED LUMINAIRE WITH SPOT OPTIC AND 2in
Adj PinHole, Black oculus, matte metallic silver finish
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1393.2 lumens
Efficiency: N/A
Efficacy: 67.6 lumens/watt
Spacing Criteria (0/90/45): 0.32 / 0.3 / 0.32
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

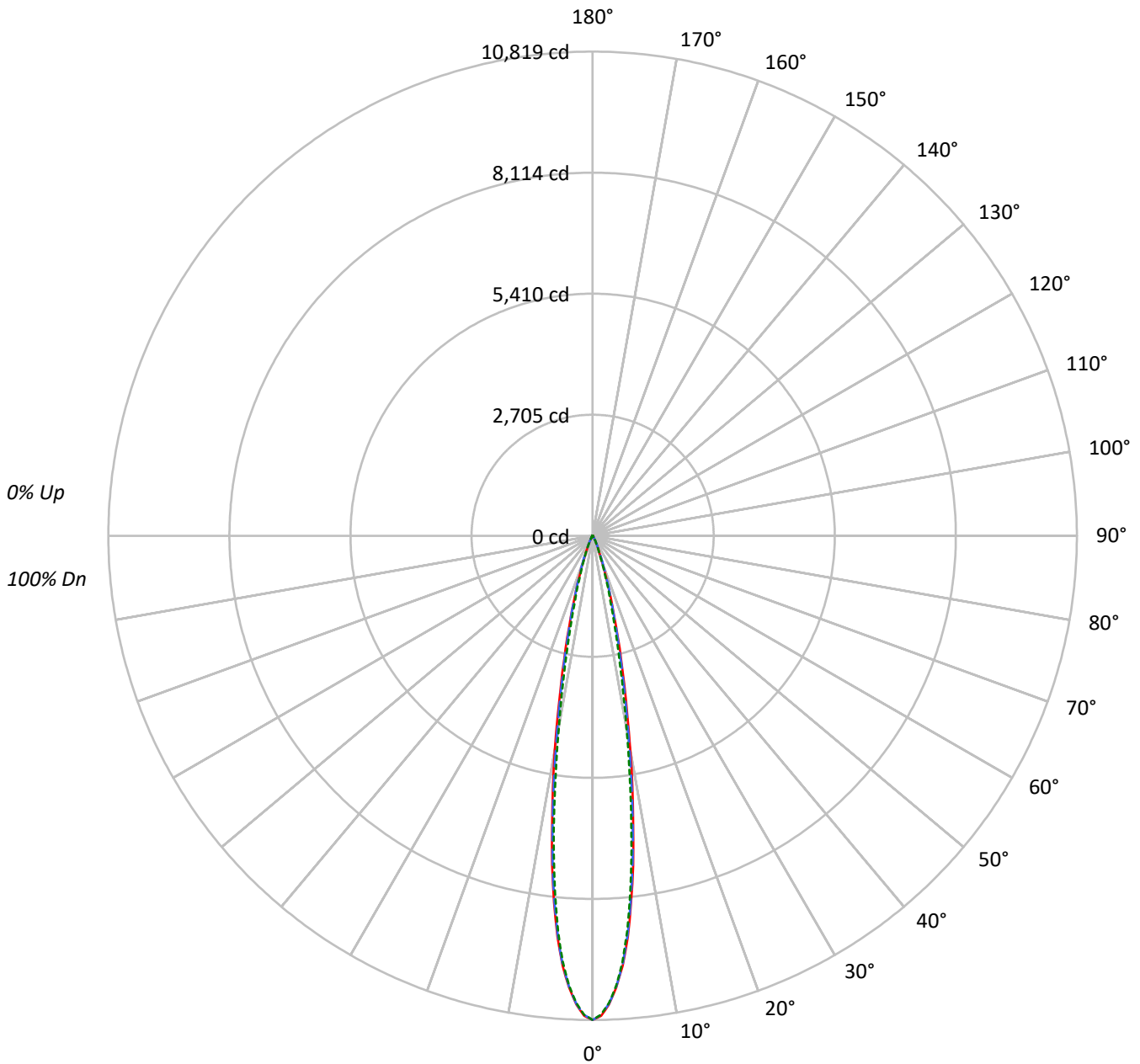
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				100															
1	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97				97															
2	112	109	106	104	110	107	105	103	104	102	101	101	100	98	99	98	96	95				95															
3	109	105	102	99	107	104	101	98	101	99	97	99	97	95	97	95	94	93				93															
4	106	102	98	96	105	101	97	95	99	96	94	97	95	93	95	93	92	91				91															
5	104	99	95	92	103	98	95	92	96	94	91	95	92	91	94	92	90	89				89															
6	101	96	92	90	100	95	92	90	94	91	89	93	90	89	92	90	88	87				87															
7	99	94	90	88	98	93	90	87	92	89	87	91	89	87	90	88	86	85				85															
8	97	92	88	86	96	91	88	85	90	87	85	89	87	85	89	86	85	84				84															
9	95	90	86	84	95	89	86	84	88	86	83	88	85	83	87	85	83	82				82															
10	93	88	84	82	93	87	84	82	87	84	82	86	84	82	86	83	82	81				81															

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5337879	5337879	5337879
5°	4459545	4438200	4385654
10°	2429718	2335034	2185594
15°	963304	938736	805835
20°	323678	345886	285823
25°	112302	121339	107784
30°	41074	44834	43923
35°	26440	30957	23429
40°	13847	16552	17067
45°	12698	9838	9280
50°	7599	5066	3838
55°	0	0	0
60°	4934	4934	1677
65°	3852	934	0
70°	0	3606	4760
75°	0	7815	0
80°	0	0	0
85°	0	4529	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	707.4	50.8
10°-20°	526.5	37.8
20°-30°	116.4	8.4
30°-40°	25.9	1.9
40°-50°	10.6	0.8
50°-60°	1.8	0.1
60°-70°	1.8	0.1
70°-80°	1.4	0.1
80°-90°	1.4	0.1
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°	1350.4	96.9
0°-40°	1376.3	98.8
0°-60°	1388.6	99.7
0°-90°	1393.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1393.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10819	10819	10819	10819	10819	
5°	9005	8967	8962	8928	8856	718
15°	1886	1880	1838	1666	1578	554
25°	206	230	223	206	198	112
35°	44	44	51	41	39	25
45°	18	15	14	14	13	11
55°	0	0	0	0	0	2
65°	3	2	1	0	0	3
75°	0	0	4	0	0	1
85°	0	1	1	2	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10819.4	10819.4	10819.4	10819.4	10819.4
1°	10730.7	10686.8	10708.4	10720.8	10702.6
2°	10480.5	10427.4	10461.4	10464.7	10446.5
3°	10107.6	10083.6	10094.3	10098.5	10062.0
4°	9630.3	9595.5	9603.0	9593.8	9549.1
5°	9004.7	8967.4	8961.6	8927.6	8855.5
6°	8239.9	8218.3	8179.4	8121.4	8025.3
7°	7420.4	7403.0	7335.8	7231.4	7120.4
8°	6522.1	6522.1	6425.2	6281.0	6154.2
9°	5672.0	5640.5	5517.0	5343.0	5220.4
10°	4850.0	4807.7	4661.0	4484.5	4362.7
11°	4071.9	4027.1	3886.3	3705.6	3592.9
12°	3399.9	3375.8	3266.4	3067.6	2954.9
13°	2832.2	2800.8	2704.6	2516.5	2420.4
14°	2337.6	2297.8	2220.7	2048.4	1954.7
15°	1886.0	1880.2	1837.9	1666.4	1577.7
16°	1541.2	1537.9	1498.2	1330.8	1294.3
17°	1237.1	1254.5	1242.9	1088.8	1047.4
18°	962.9	997.7	1006.0	866.7	825.3
19°	774.8	807.9	822.0	700.2	665.4
20°	616.5	648.0	658.8	567.6	544.4
22.5°	349.7	391.9	393.6	346.4	322.3
25°	206.3	230.4	222.9	206.3	198.0
26°	173.2	196.4	184.8	179.8	173.2
27°	145.8	161.6	152.5	144.2	150.0
28°	121.0	131.8	122.6	125.1	116.0
29°	96.1	114.4	101.1	103.6	96.1
30°	72.1	88.7	78.7	82.9	77.1
32.5°	53.9	58.8	52.2	58.8	58.8
35°	43.9	43.9	51.4	41.4	38.9
37.5°	19.9	15.7	17.4	14.1	16.6
40°	21.5	24.0	25.7	21.5	26.5
42.5°	14.9	19.9	19.9	13.3	23.2
45°	18.2	14.9	14.1	14.1	13.3
47.5°	8.3	5.8	6.6	7.5	11.6
50°	9.9	4.1	6.6	9.9	5.0
52.5°	3.3	0.0	4.1	0.0	1.7
55°	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.8	1.7	0.0
60°	5.0	5.8	5.0	3.3	1.7
62.5°	8.3	1.7	2.5	3.3	0.0
65°	3.3	1.7	0.8	0.0	0.0
67.5°	0.0	0.0	2.5	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
75°	0.0	0.0	4.1	0.0	0.0
77.5°	1.7	0.0	3.3	0.0	0.0
80°	0.0	1.7	0.0	0.0	0.0
82.5°	0.0	0.0	4.1	3.3	0.0
85°	0.0	0.8	0.8	2.5	0.0
87.5°	0.0	2.5	3.3	0.8	1.7
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	2.5	1.7	3.3
72.5°	0.0	0.8	3.3	5.0	1.7



(END OF REPORT)