

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: P314724

Luminaire Tested: **LDA2B05SP9030D010 PIN1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P314724
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: LDA2B05SP9030D010 PIN1MW
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH SPOT OPTIC AND 2in
Adj PinHole, Black oculus, matte white finish
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 642.4 lumens
Efficiency: N/A
Efficacy: 91.8 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

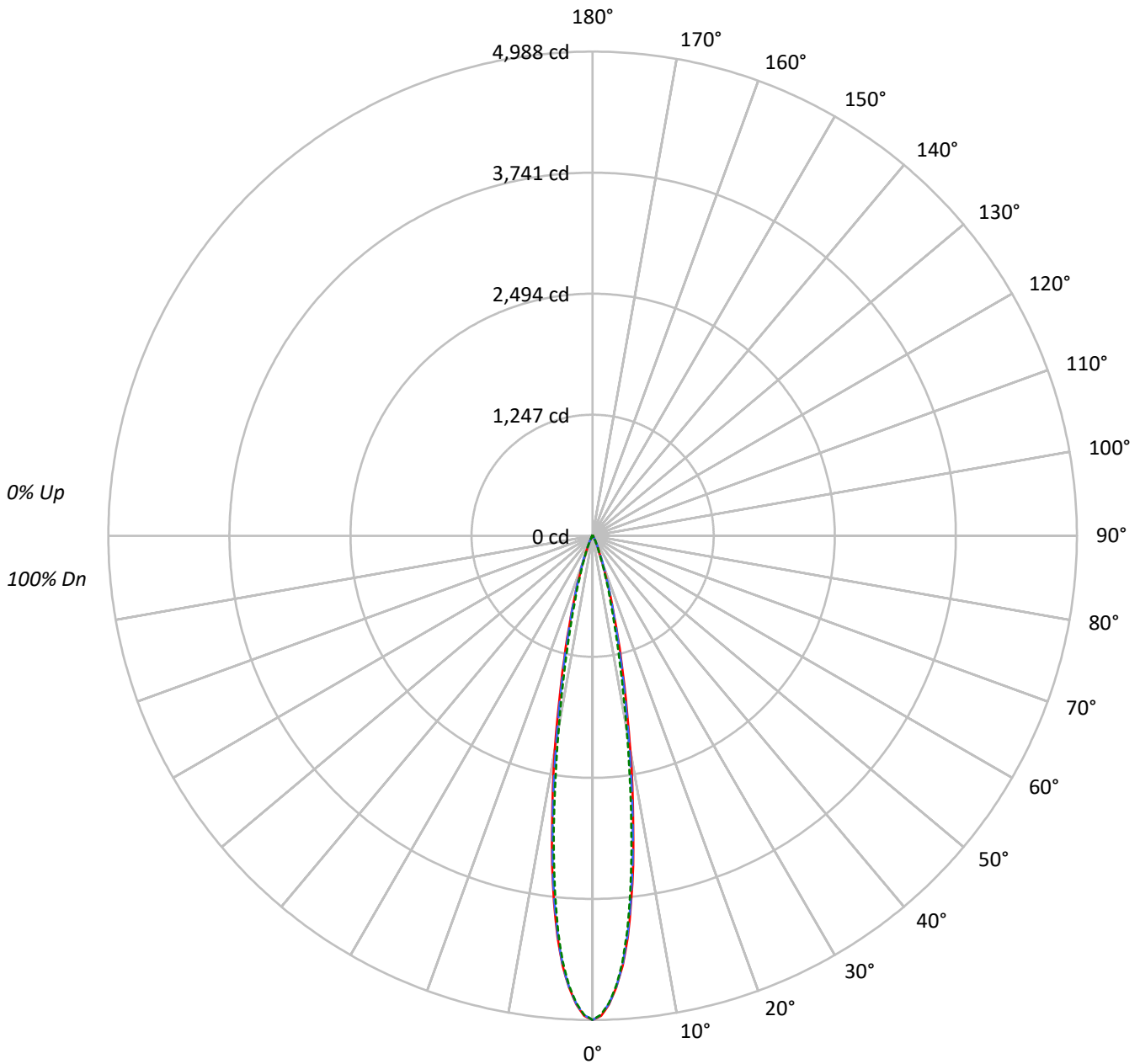
Input Watts (W): 7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2461037	2461037	2461037
5°	2056114	2046259	2022041
10°	1120225	1076590	1007707
15°	444111	432823	371531
20°	149212	159450	131781
25°	51769	55961	49700
30°	18914	20680	20224
35°	12166	14274	10841
40°	6376	7600	7857
45°	5861	4535	4256
50°	3531	2379	1765
55°	0	0	0
60°	2269	2269	789
65°	1751	467	0
70°	0	1587	2164
75°	0	3622	0
80°	0	0	0
85°	0	2264	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	326.2	50.8
10°-20°	242.8	37.8
20°-30°	53.7	8.4
30°-40°	11.9	1.9
40°-50°	4.9	0.8
50°-60°	0.8	0.1
60°-70°	0.8	0.1
70°-80°	0.7	0.1
80°-90°	0.6	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°	622.6	96.9
0°-40°	634.5	98.8
0°-60°	640.2	99.7
0°-90°	642.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	642.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4988	4988	4988	4988	4988	
5°	4152	4134	4132	4116	4083	331
15°	870	867	847	768	727	256
25°	95	106	103	95	91	52
35°	20	20	24	19	18	12
45°	8	7	6	6	6	5
55°	0	0	0	0	0	1
65°	2	1	0	0	0	2
75°	0	0	2	0	0	0
85°	0	0	0	1	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4988.3	4988.3	4988.3	4988.3	4988.3
1°	4947.5	4927.2	4937.2	4942.9	4934.5
2°	4832.1	4807.6	4823.3	4824.8	4816.4
3°	4660.2	4649.1	4654.1	4656.0	4639.2
4°	4440.1	4424.1	4427.5	4423.3	4402.7
5°	4151.7	4134.5	4131.8	4116.1	4082.9
6°	3799.0	3789.1	3771.2	3744.4	3700.1
7°	3421.2	3413.2	3382.2	3334.1	3282.9
8°	3007.1	3007.1	2962.4	2895.9	2837.4
9°	2615.1	2600.6	2543.6	2463.4	2406.9
10°	2236.1	2216.6	2149.0	2067.6	2011.5
11°	1877.4	1856.7	1791.8	1708.5	1656.5
12°	1567.5	1556.4	1506.0	1414.3	1362.4
13°	1305.8	1291.3	1247.0	1160.3	1116.0
14°	1077.7	1059.4	1023.9	944.4	901.2
15°	869.5	866.9	847.4	768.3	727.4
16°	710.6	709.1	690.7	613.6	596.8
17°	570.4	578.4	573.1	502.0	482.9
18°	443.9	460.0	463.8	399.6	380.5
19°	357.2	372.5	379.0	322.8	306.8
20°	284.2	298.8	303.7	261.7	251.0
22.5°	161.2	180.7	181.5	159.7	148.6
25°	95.1	106.2	102.8	95.1	91.3
26°	79.8	90.5	85.2	82.9	79.8
27°	67.2	74.5	70.3	66.5	69.1
28°	55.8	60.7	56.5	57.7	53.5
29°	44.3	52.7	46.6	47.8	44.3
30°	33.2	40.9	36.3	38.2	35.5
32.5°	24.8	27.1	24.1	27.1	27.1
35°	20.2	20.2	23.7	19.1	18.0
37.5°	9.2	7.3	8.0	6.5	7.6
40°	9.9	11.1	11.8	9.9	12.2
42.5°	6.9	9.2	9.2	6.1	10.7
45°	8.4	6.9	6.5	6.5	6.1
47.5°	3.8	2.7	3.1	3.4	5.3
50°	4.6	1.9	3.1	4.6	2.3
52.5°	1.5	0.0	1.9	0.0	0.8
55°	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.4	0.8	0.0
60°	2.3	2.7	2.3	1.5	0.8
62.5°	3.8	0.8	1.1	1.5	0.0
65°	1.5	0.8	0.4	0.0	0.0
67.5°	0.0	0.0	1.1	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
75°	0.0	0.0	1.9	0.0	0.0
77.5°	0.8	0.0	1.5	0.0	0.0
80°	0.0	0.8	0.0	0.0	0.0
82.5°	0.0	0.0	1.9	1.5	0.0
85°	0.0	0.4	0.4	1.1	0.0
87.5°	0.0	1.1	1.5	0.4	0.8
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	1.1	0.8	1.5
72.5°	0.0	0.4	1.5	2.3	0.8



(END OF REPORT)