

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: P314737

Luminaire Tested: **LDA2B05SP9727D010 PIN1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P314737
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: LDA2B05SP9727D010 PIN1MMS
Description: PORTFOLIO 2IN ADJ 500 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: 554.0 lumens
Efficiency: N/A
Efficacy: 79.1 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

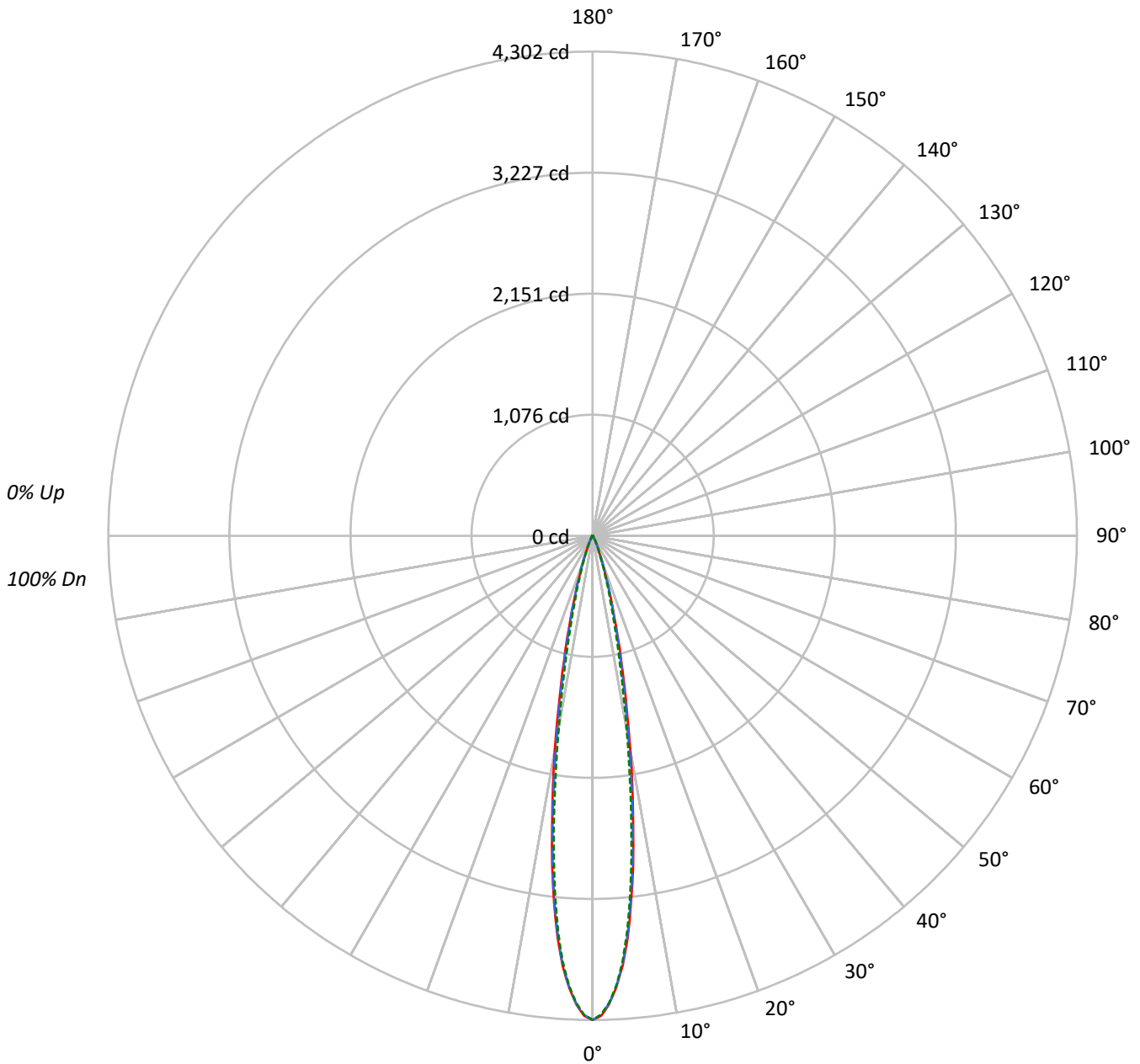
Input Watts (W): 7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P314737

CATALOG NUMBER: LDA2B05SP9727D010 PIN1MMS

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°	2122492	2122492	2122492
5°	1773279	1764761	1743861
10°	966126	928503	869087
15°	383023	373268	320403
20°	128684	137504	113668
25°	44638	48231	42841
30°	16350	17831	17432
35°	10540	12287	9335
40°	5539	6569	6762
45°	5024	3907	3698
50°	3070	1996	1535
55°	0	0	0
60°	1973	1973	691
65°	1518	350	0
70°	0	1442	1875
75°	0	3050	0
80°	0	0	0
85°	0	1698	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	281.3	50.8
10°-20°	209.4	37.8
20°-30°	46.3	8.4
30°-40°	10.3	1.9
40°-50°	4.2	0.8
50°-60°	0.7	0.1
60°-70°	0.7	0.1
70°-80°	0.6	0.1
80°-90°	0.5	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°	537.0	96.9
0°-40°	547.2	98.8
0°-60°	552.2	99.7
0°-90°	554.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	554.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4302	4302	4302	4302	4302	
5°	3581	3566	3563	3550	3521	285
15°	750	748	731	663	627	220
25°	82	92	89	82	79	45
35°	18	18	20	16	16	10
45°	7	6	6	6	5	4
55°	0	0	0	0	0	1
65°	1	1	0	0	0	1
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°	4302.1	4302.1	4302.1	4302.1	4302.1
1°	4266.9	4249.4	4258.0	4262.9	4255.7
2°	4167.4	4146.3	4159.8	4161.1	4153.9
3°	4019.1	4009.5	4013.8	4015.5	4001.0
4°	3829.3	3815.5	3818.4	3814.8	3797.0
5°	3580.6	3565.7	3563.4	3549.9	3521.2
6°	3276.4	3267.9	3252.4	3229.3	3191.1
7°	2950.6	2943.7	2917.0	2875.4	2831.3
8°	2593.4	2593.4	2554.9	2497.5	2447.1
9°	2255.4	2242.8	2193.7	2124.5	2075.8
10°	1928.5	1911.7	1853.4	1783.2	1734.8
11°	1619.1	1601.3	1545.3	1473.5	1428.7
12°	1351.9	1342.3	1298.8	1219.8	1175.0
13°	1126.2	1113.7	1075.5	1000.7	962.4
14°	929.5	913.7	883.0	814.5	777.3
15°	749.9	747.6	730.8	662.6	627.3
16°	612.8	611.5	595.7	529.2	514.7
17°	491.9	498.8	494.2	432.9	416.5
18°	382.9	396.7	400.0	344.6	328.2
19°	308.1	321.3	326.9	278.4	264.6
20°	245.1	257.7	261.9	225.7	216.5
22.5°	139.0	155.8	156.5	137.7	128.2
25°	82.0	91.6	88.6	82.0	78.7
26°	68.9	78.1	73.5	71.5	68.9
27°	58.0	64.3	60.6	57.3	59.6
28°	48.1	52.4	48.8	49.8	46.1
29°	38.2	45.5	40.2	41.2	38.2
30°	28.7	35.3	31.3	32.9	30.6
32.5°	21.4	23.4	20.8	23.4	23.4
35°	17.5	17.5	20.4	16.5	15.5
37.5°	7.9	6.3	6.9	5.6	6.6
40°	8.6	9.6	10.2	8.6	10.5
42.5°	5.9	7.9	7.9	5.3	9.2
45°	7.2	5.9	5.6	5.6	5.3
47.5°	3.3	2.3	2.6	3.0	4.6
50°	4.0	1.6	2.6	4.0	2.0
52.5°	1.3	0.0	1.6	0.0	0.7
55°	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.3	0.7	0.0
60°	2.0	2.3	2.0	1.3	0.7
62.5°	3.3	0.7	1.0	1.3	0.0
65°	1.3	0.7	0.3	0.0	0.0
67.5°	0.0	0.0	1.0	0.0	0.0



TEST NUMBER: P314737

CATALOG NUMBER: LDA2B05SP9727D010 PIN1MMS

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
75°	0.0	0.0	1.6	0.0	0.0
77.5°	0.7	0.0	1.3	0.0	0.0
80°	0.0	0.7	0.0	0.0	0.0
82.5°	0.0	0.0	1.6	1.3	0.0
85°	0.0	0.3	0.3	1.0	0.0
87.5°	0.0	1.0	1.3	0.3	0.7
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	1.0	0.7	1.3
72.5°	0.0	0.3	1.3	2.0	0.7



(END OF REPORT)