

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: P314732

Luminaire Tested: **LDA2B05SP9040D010 PIN1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P314732
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: LDA2B05SP9040D010 PIN1MB
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH SPOT OPTIC AND 2in Adj PinHole, Black oculus black finish
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 681.0 lumens
Efficiency: N/A
Efficacy: 97.3 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

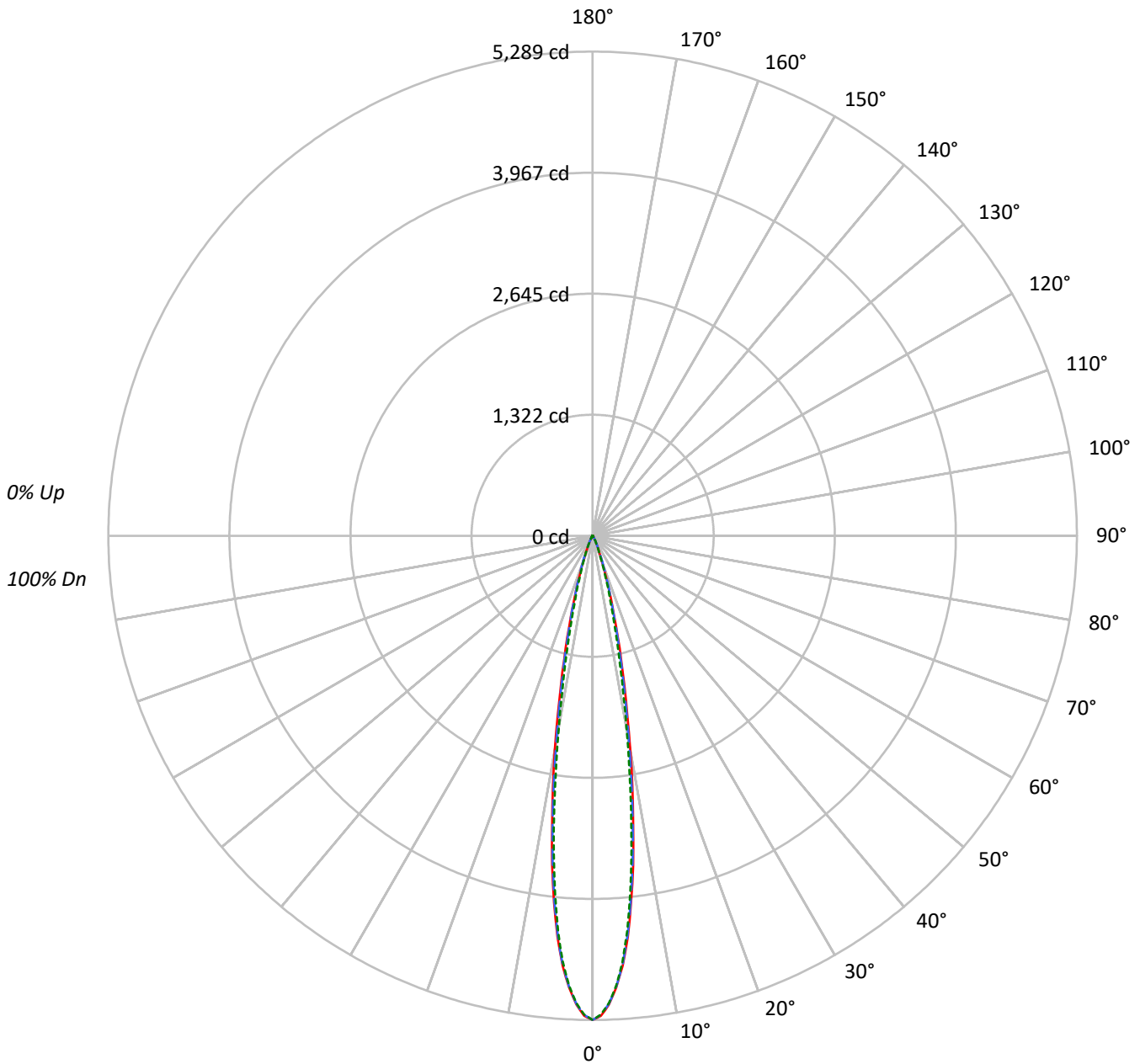
Input Watts (W): 7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	96	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°	2609292	2609292	2609292
5°	2179975	2169526	2143822
10°	1187706	1141416	1068374
15°	470875	458872	393903
20°	158242	169058	139709
25°	54926	59336	52694
30°	20053	21933	21477
35°	12949	15117	11443
40°	6762	8115	8372
45°	6210	4814	4535
50°	3761	2456	1842
55°	0	0	0
60°	2368	2368	789
65°	1868	467	0
70°	0	1731	2308
75°	0	3812	0
80°	0	0	0
85°	0	2264	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	345.8	50.8
10°-20°	257.4	37.8
20°-30°	56.9	8.4
30°-40°	12.7	1.9
40°-50°	5.2	0.8
50°-60°	0.9	0.1
60°-70°	0.9	0.1
70°-80°	0.7	0.1
80°-90°	0.7	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°	660.1	96.9
0°-40°	672.8	98.8
0°-60°	678.8	99.7
0°-90°	681.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	681.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5289	5289	5289	5289	5289	
5°	4402	4384	4381	4364	4329	351
15°	922	919	898	815	771	271
25°	101	113	109	101	97	55
35°	22	22	25	20	19	12
45°	9	7	7	7	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°	5288.8	5288.8	5288.8	5288.8	5288.8
1°	5245.5	5224.0	5234.6	5240.6	5231.7
2°	5123.2	5097.2	5113.8	5115.5	5106.6
3°	4940.9	4929.1	4934.4	4936.4	4918.6
4°	4707.6	4690.6	4694.2	4689.8	4667.9
5°	4401.8	4383.5	4380.7	4364.1	4328.8
6°	4027.9	4017.4	3998.3	3970.0	3923.0
7°	3627.3	3618.8	3586.0	3534.9	3480.7
8°	3188.2	3188.2	3140.8	3070.3	3008.4
9°	2772.6	2757.2	2696.9	2611.8	2551.9
10°	2370.8	2350.1	2278.4	2192.2	2132.6
11°	1990.5	1968.6	1899.7	1811.4	1756.3
12°	1661.9	1650.2	1596.7	1499.5	1444.4
13°	1384.5	1369.1	1322.1	1230.2	1183.2
14°	1142.7	1123.2	1085.6	1001.3	955.5
15°	921.9	919.1	898.4	814.6	771.2
16°	753.4	751.8	732.3	650.5	632.7
17°	604.8	613.3	607.6	532.2	512.0
18°	470.7	487.7	491.7	423.7	403.4
19°	378.7	394.9	401.8	342.3	325.3
20°	301.4	316.8	322.0	277.5	266.1
22.5°	170.9	191.6	192.4	169.3	157.6
25°	100.9	112.6	109.0	100.9	96.8
26°	84.7	96.0	90.3	87.9	84.7
27°	71.3	79.0	74.5	70.5	73.3
28°	59.1	64.4	59.9	61.2	56.7
29°	47.0	55.9	49.4	50.6	47.0
30°	35.2	43.3	38.5	40.5	37.7
32.5°	26.3	28.8	25.5	28.8	28.8
35°	21.5	21.5	25.1	20.3	19.0
37.5°	9.7	7.7	8.5	6.9	8.1
40°	10.5	11.7	12.6	10.5	13.0
42.5°	7.3	9.7	9.7	6.5	11.3
45°	8.9	7.3	6.9	6.9	6.5
47.5°	4.1	2.8	3.2	3.6	5.7
50°	4.9	2.0	3.2	4.9	2.4
52.5°	1.6	0.0	2.0	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°	2.4	2.8	2.4	1.6	0.8
62.5°	4.1	0.8	1.2	1.6	0.0
65°	1.6	0.8	0.4	0.0	0.0
67.5°	0.0	0.0	1.2	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
75°	0.0	0.0	2.0	0.0	0.0
77.5°	0.8	0.0	1.6	0.0	0.0
80°	0.0	0.8	0.0	0.0	0.0
82.5°	0.0	0.0	2.0	1.6	0.0
85°	0.0	0.4	0.4	1.2	0.0
87.5°	0.0	1.2	1.6	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	1.2	0.8	1.6
72.5°	0.0	0.4	1.6	2.4	0.8



(END OF REPORT)