

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: P283492

Luminaire Tested: **LDA2B059024D010 EU2B05FL409024 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283492
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-15)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B059024D010 EU2B05FL409024 2LBAPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ PinHole, MMS

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 497.2 lumens
Efficiency: N/A
Efficacy: 71.0 lumens/watt
Spacing Criteria (0/90/45): 0.55 / 0.55 / 0.55
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

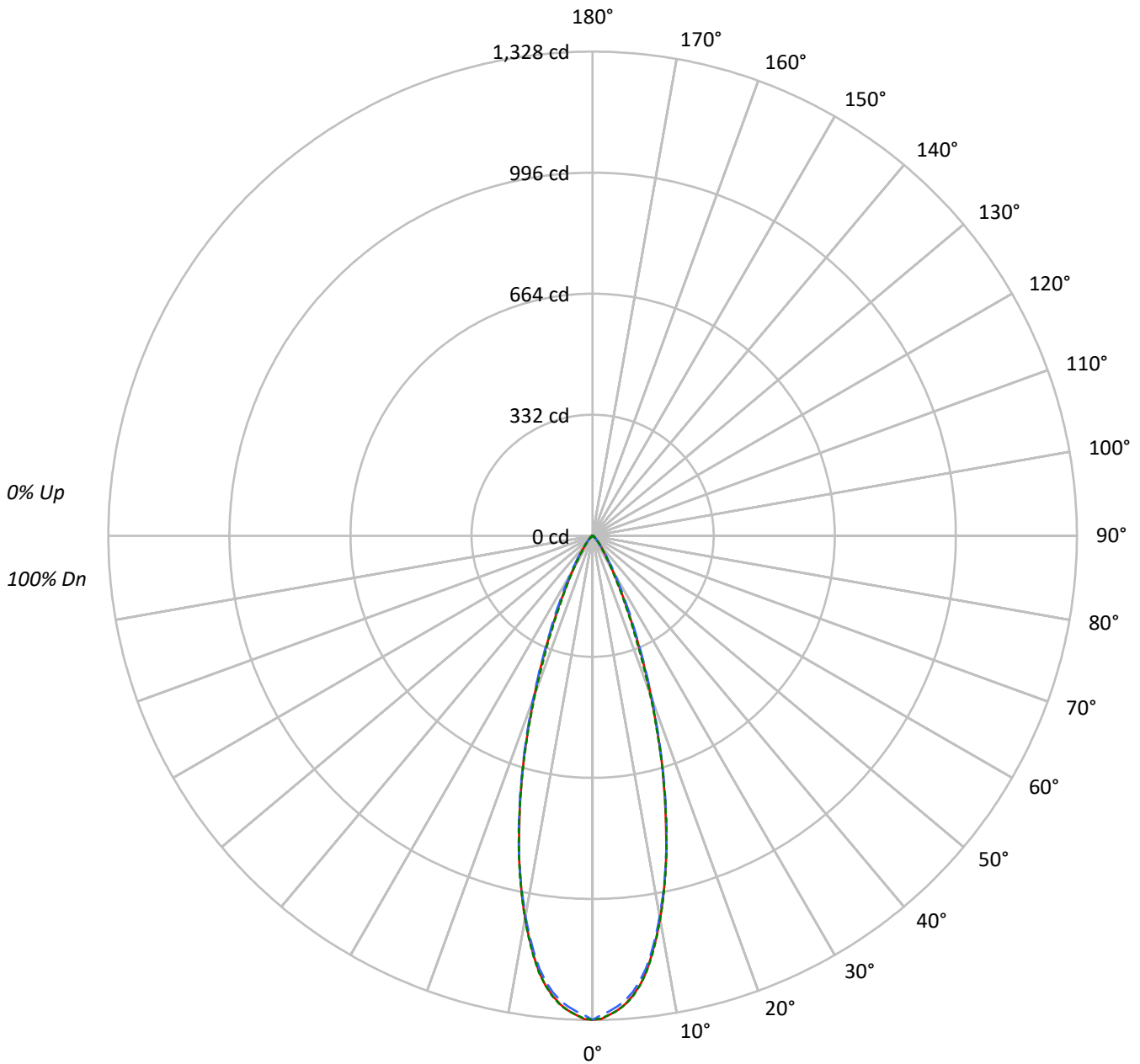
Input Watts (W): 7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P283492

CATALOG NUMBER: LDA2B059024D010 EU2B05FL409024 2LBAPINSQ1MMS

Luminous Intensity Polar Plot





TEST NUMBER: P283492

CATALOG NUMBER: LDA2B059024D010 EU2B05FL409024 2LBAPINSQ1MMS

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	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95																			
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90																			
3	105	100	96	92	104	99	95	92	96	93	90	94	91	89	92	89	88	86																			
4	101	95	90	87	100	94	90	86	92	88	85	90	87	84	88	86	83	82																			
5	98	91	86	82	96	90	85	82	88	84	81	86	83	80	85	82	80	79																			
6	94	87	82	78	93	86	81	78	84	80	77	83	80	77	82	79	76	75																			
7	91	83	78	75	89	82	78	74	81	77	74	80	76	74	79	76	73	72																			
8	87	80	75	71	86	79	74	71	78	74	71	77	73	71	76	73	70	69																			
9	84	77	72	69	83	76	72	68	75	71	68	74	71	68	74	70	68	67																			
10	82	74	69	66	81	73	69	66	73	69	66	72	68	65	71	68	65	64																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	655086	655086	655086
5°	626932	622228	627873
10°	534137	530781	534688
15°	393647	396252	394975
20°	245764	250279	240356
25°	126946	136200	120577
30°	60842	69786	57994
35°	31439	34752	29391
40°	17582	18484	16681
45°	10675	10675	10326
50°	5603	6831	5603
55°	2838	4559	3097
60°	3256	3256	3256
65°	3619	3619	3619
70°	4472	4039	4472
75°	4194	4194	4194
80°	3978	3978	3978
85°	3396	3396	3396



TEST NUMBER: P283492

CATALOG NUMBER: LDA2B059024D010 EU2B05FL409024 2LBAPINSQ1MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.2	23.0
10°-20°	209.8	42.2
20°-30°	113.7	22.9
30°-40°	36.5	7.3
40°-50°	12.4	2.5
50°-60°	4.3	0.9
60°-70°	3.2	0.6
70°-80°	2.3	0.5
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°	437.7	88.0
0°-40°	474.2	95.4
0°-60°	491.0	98.8
0°-90°	497.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	497.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1328	1328	1328	1328	1328	
5°	1266	1258	1256	1269	1268	114
15°	771	777	776	779	773	209
25°	233	244	250	233	222	112
35°	52	54	58	52	49	35
45°	15	16	15	15	15	12
55°	3	4	5	4	4	4
65°	3	3	3	3	3	3
75°	2	2	2	2	2	2
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



TEST NUMBER: P283492

CATALOG NUMBER: LDA2B059024D010 EU2B05FL409024 2LBAPINSQ1MMS

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1327.8	1327.8	1327.8	1327.8	1327.8
1°	1325.6	1316.1	1314.7	1327.0	1324.2
2°	1315.0	1306.1	1304.7	1316.9	1314.4
3°	1303.3	1295.2	1292.4	1305.2	1303.5
4°	1287.6	1280.1	1277.6	1290.4	1289.0
5°	1265.9	1258.1	1256.4	1269.0	1267.8
6°	1239.1	1232.7	1229.6	1242.2	1239.9
7°	1205.6	1199.8	1196.4	1205.6	1206.7
8°	1162.1	1159.3	1155.4	1164.6	1164.6
9°	1115.8	1113.3	1109.1	1117.5	1117.5
10°	1066.2	1064.5	1059.5	1067.3	1067.3
11°	1011.8	1010.9	1007.3	1013.7	1013.7
12°	954.6	956.5	953.2	958.8	956.8
13°	897.4	896.6	896.8	901.0	897.9
14°	832.7	837.7	838.5	841.0	836.3
15°	770.7	777.2	775.8	779.4	773.3
16°	707.4	714.7	714.4	715.2	709.4
17°	648.3	652.5	652.7	651.9	644.7
18°	585.2	591.1	591.1	589.7	581.1
19°	523.6	528.1	531.1	528.1	518.0
20°	468.1	471.2	476.7	468.9	457.8
21°	414.8	417.6	422.3	413.1	400.9
22°	363.8	367.4	371.8	361.2	348.4
23°	316.1	324.4	326.1	311.6	300.7
24°	272.3	281.7	284.5	269.7	258.3
25°	233.2	243.8	250.2	232.9	221.5
26°	199.5	209.8	217.6	200.3	189.4
27°	169.9	180.8	188.9	172.7	162.4
28°	144.5	155.1	163.5	148.4	138.6
29°	125.5	131.7	140.0	127.5	118.6
30°	106.8	113.5	122.5	109.6	101.8
32.5°	73.4	77.0	84.0	76.2	70.0
35°	52.2	54.4	57.7	52.4	48.8
37.5°	37.1	38.2	40.2	37.1	35.1
40°	27.3	27.9	28.7	27.1	25.9
42.5°	20.4	20.6	20.6	20.1	19.5
45°	15.3	15.6	15.3	15.3	14.8
47.5°	11.2	12.0	11.7	11.7	10.9
50°	7.3	8.9	8.9	8.6	7.3
52.5°	4.5	6.1	7.0	6.1	4.7
55°	3.3	4.2	5.3	4.2	3.6
57.5°	3.3	3.3	3.9	3.3	3.3
60°	3.3	3.3	3.3	3.3	3.3



TEST NUMBER: P283492

CATALOG NUMBER: LDA2B059024D010 EU2B05FL409024 2LBAPINSQ1MMS

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	3.1	3.1	3.1	3.1	3.1
70°	3.1	3.1	2.8	3.1	3.1
72.5°	2.8	2.8	2.5	2.8	2.5
75°	2.2	2.2	2.2	2.2	2.2
77.5°	1.7	1.7	1.7	1.7	1.7
80°	1.4	1.4	1.4	1.4	1.4
82.5°	0.8	0.8	0.8	1.1	0.8
85°	0.6	0.6	0.6	0.6	0.6
87.5°	0.3	0.3	0.3	0.3	0.3
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180° - - 45°-225° - - - - 90°-270°







62.5°	3.3	3.3	3.3	3.3	3.3
65°	3.1	3.3	3.1	3.3	3.1



(END OF REPORT)