

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: P1219526

Luminaire Tested: **LDSQA4A15950D010TE LAR35FL 4LSQAL1H**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P1219526
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26798)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDSQA4A15950D010TE LAR35FL 4LSQAL1H
Description: PORTFOLIO 4" SQUARE LENSED ADJUSTABLE, SELF-FLANGED, 35° FLOOD
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

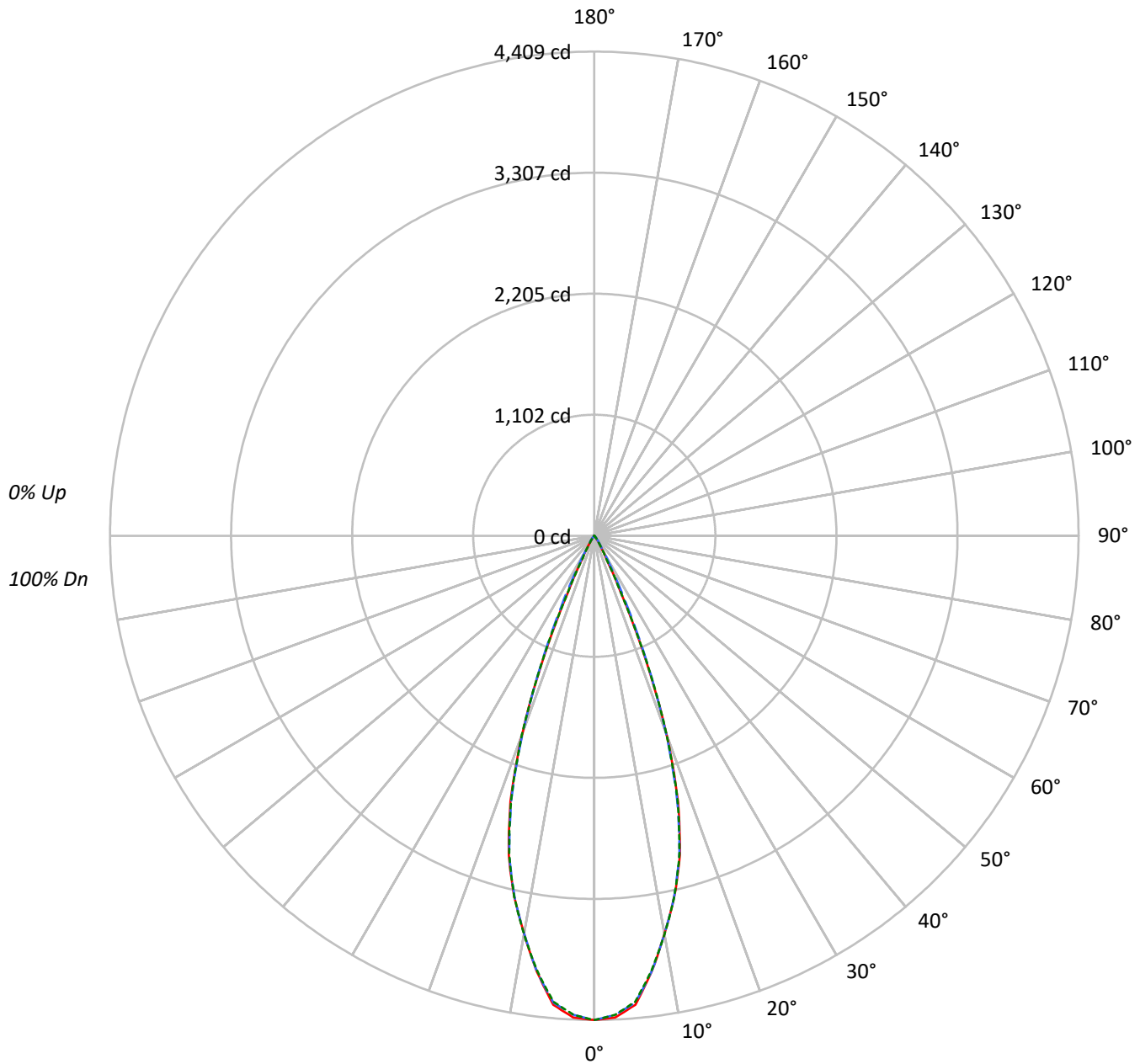
Lumens per Lamp: N/A
Luminaire Lumens: 1590.3 lumens
Efficiency: N/A
Efficacy: 78.0 lumens/watt
Spacing Criteria (0/90/45): 0.63 / 0.63 / 0.57
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 20.4
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: P1219526

CATALOG NUMBER: LDSQA4A15950D010TE LAR35FL 4LSQAL1H

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P1219526

CATALOG NUMBER: LDSQA4A15950D010TE LAR35FL 4LSQAL1H

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	115	113	111	109	112	110	109	107	106	105	104		103	102	101		99
2	111	107	104	101	109	105	102	100	102	100	98		99	97	96		97
3	107	102	98	95	105	101	97	94	98	95	93		96	94	92		94
4	103	98	93	90	102	97	93	90	95	91	89		93	90	88		91
5	100	94	89	86	98	93	89	86	91	88	85		90	87	84		88
6	97	90	86	82	95	89	85	82	88	84	82		87	83	81		85
7	94	87	82	79	92	86	82	79	85	81	78		84	81	78		83
8	91	84	79	76	90	83	79	76	82	78	76		81	78	75		80
9	88	81	76	73	87	80	76	73	79	76	73		79	75	73		78
10	85	78	74	71	84	78	74	71	77	73	71		76	73	70		76

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	427163	427163	427163
5°	416833	414985	414198
10°	361972	361903	362336
15°	301932	300327	300176
20°	198041	196474	198185
25°	60564	76598	60318
30°	15157	18323	14822
35°	4908	7581	4825
40°	2302	3592	2023
45°	1192	1493	904
50°	663	784	437
55°	372	490	253
60°	291	291	291
65°	160	160	160
70°	198	198	198
75°	0	262	0
80°	0	0	0
85°	0	0	0



TEST NUMBER: P1219526

CATALOG NUMBER: LDSQA4A15950D010TE LAR35FL 4LSQAL1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	387.4	24.4
10°-20°	802.7	50.5
20°-30°	350.5	22.0
30°-40°	38.3	2.4
40°-50°	7.9	0.5
50°-60°	2.2	0.1
60°-70°	0.9	0.1
70°-80°	0.5	0.0
80°-90°	0.0	0.0
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°	1540.5	96.9
0°-40°	1578.8	99.3
0°-60°	1588.9	99.9
0°-90°	1590.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1590.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4409	4409	4409	4409	4409	
5°	4286	4275	4267	4278	4259	388
15°	3010	2997	2994	2999	2993	805
25°	567	698	717	705	564	328
35°	42	50	64	49	41	33
45°	9	10	11	8	7	7
55°	2	2	3	2	2	2
65°	1	1	1	1	1	1
75°	0	1	1	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P1219526

CATALOG NUMBER: LDSQA4A15950D010TE LAR35FL 4LSQAL1H

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4409.4	4409.4	4409.4	4409.4	4409.4
2.5°	4389.7	4373.7	4365.0	4383.9	4365.0
5°	4286.4	4274.7	4267.4	4278.2	4259.3
7.5°	4003.1	3991.4	4001.6	4001.6	3992.1
10°	3679.7	3673.2	3679.0	3694.3	3683.4
12.5°	3365.9	3360.8	3362.9	3379.0	3366.6
15°	3010.5	2997.4	2994.5	2998.8	2993.0
17.5°	2537.2	2517.4	2505.2	2515.3	2518.2
20°	1921.0	1921.0	1905.8	1914.5	1922.4
22.5°	1228.6	1256.9	1259.9	1258.4	1253.2
25°	566.6	698.4	716.6	705.0	564.3
27.5°	229.4	283.2	352.5	292.0	221.3
30°	135.5	142.7	163.8	140.5	132.5
32.5°	71.3	86.0	100.5	85.3	69.2
35°	41.5	49.5	64.1	48.8	40.8
37.5°	26.9	31.3	43.0	31.3	25.6
40°	18.2	20.4	28.4	19.7	16.0
42.5°	12.4	13.8	18.2	12.4	10.2
45°	8.7	9.5	10.9	8.0	6.6
47.5°	5.8	6.6	7.3	5.2	4.4
50°	4.4	4.4	5.2	3.6	2.9
52.5°	2.9	3.6	3.6	2.2	2.2
55°	2.2	2.2	2.9	1.5	1.5
57.5°	2.2	2.2	2.2	1.5	1.5
60°	1.5	1.5	1.5	1.5	1.5
62.5°	0.7	1.5	1.5	0.7	0.7
65°	0.7	0.7	0.7	0.7	0.7
67.5°	0.7	0.7	0.7	0.7	0.7
70°	0.7	0.7	0.7	0.7	0.7
72.5°	0.7	0.7	0.7	0.7	0.7
75°	0.0	0.7	0.7	0.0	0.0
77.5°	0.0	0.7	0.7	0.7	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



Report Generated By 670245859 / DESKTOP-T8S5UU9

Classified

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269

Scaled Data Report



Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



— 0°-180° - - 45°-225° - - - 90°-270°

Classified

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269

Scaled Data Report



Classified

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269

Scaled Data Report



Classified

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)