

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: P1219498

Luminaire Tested: **LDSQA4A15935D010TE LAR35FL 4LSQAL1H**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P1219498
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: LDSQA4A15935D010TE LAR35FL 4LSQAL1H
Description: PORTFOLIO 4" SQUARE LENSED ADJUSTABLE, SELF-FLANGED, 35° FLOOD
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

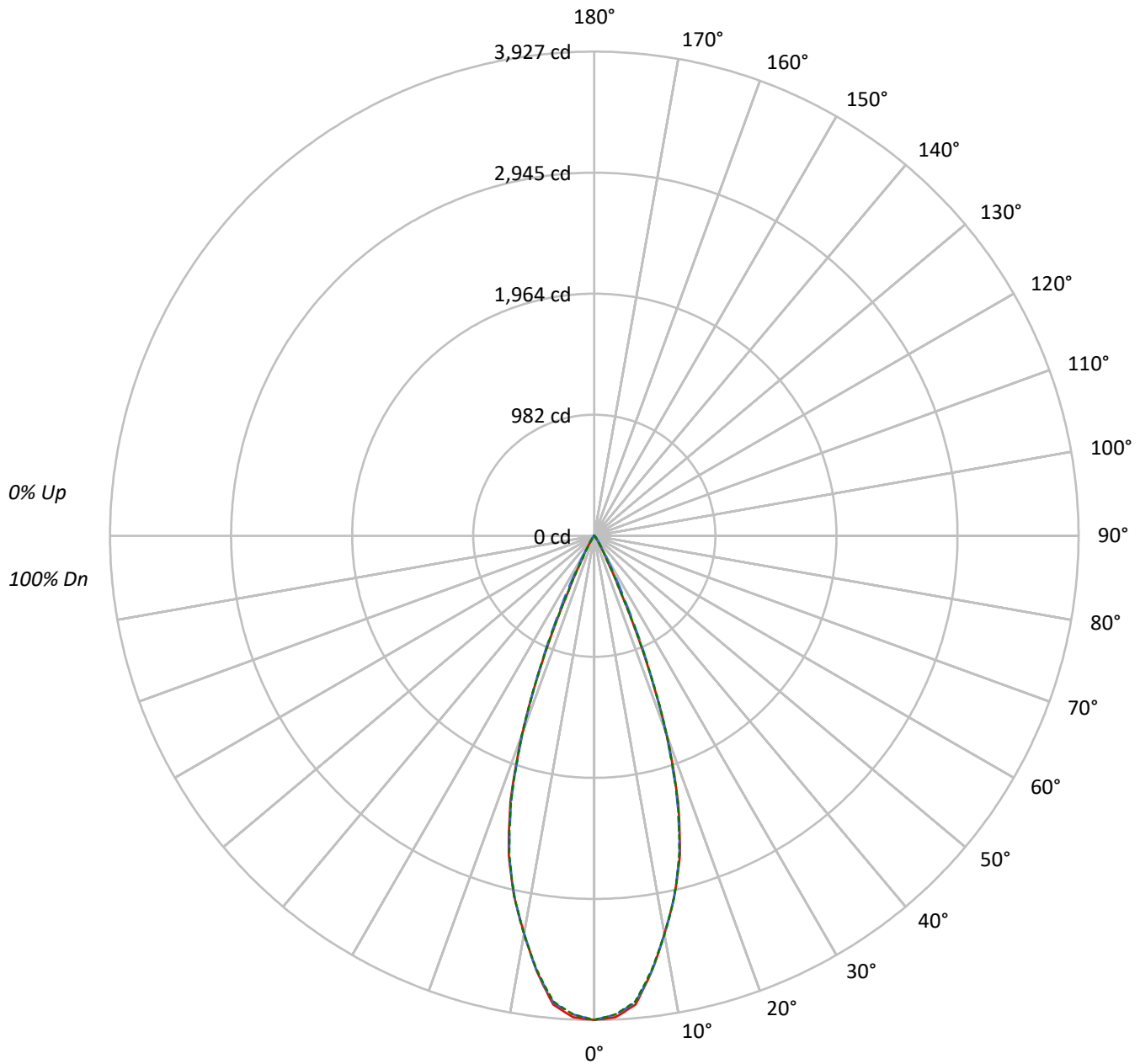
Lumens per Lamp: N/A
Luminaire Lumens: 1416.3 lumens
Efficiency: N/A
Efficacy: 69.4 lumens/watt
Spacing Criteria (0/90/45): 0.63 / 0.63 / 0.57
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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: P1219498

CATALOG NUMBER: LDSQA4A15935D010TE LAR35FL 4LSQAL1H

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P1219498

CATALOG NUMBER: LDSQA4A15935D010TE 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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96		
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92		
3	107	102	98	95	105	101	97	94	98	95	93	96	94	92	94	92	90	89		
4	103	98	93	90	102	97	93	90	95	91	89	93	90	88	91	89	87	86		
5	100	94	89	86	98	93	89	86	91	88	85	90	87	84	88	86	84	82		
6	97	90	86	82	95	89	85	82	88	84	82	87	83	81	85	83	81	79		
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77		
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74		
9	88	81	76	73	87	80	76	73	79	76	73	79	75	73	78	75	73	72		
10	85	78	74	71	84	78	73	71	77	73	71	76	73	70	76	72	70	69		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	380401	380401	380401
5°	371196	369562	368872
10°	322348	322289	322673
15°	268875	267451	267320
20°	176371	174969	176505
25°	53926	68217	53723
30°	13491	16321	13200
35°	4364	6741	4293
40°	2049	3187	1808
45°	1069	1329	795
50°	588	693	392
55°	338	439	220
60°	252	252	252
65°	160	160	160
70°	198	198	198
75°	0	262	0
80°	0	0	0
85°	0	0	0

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P1219498

CATALOG NUMBER: LDSQA4A15935D010TE LAR35FL 4LSQAL1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	345.0	24.4
10°-20°	714.8	50.5
20°-30°	312.1	22.0
30°-40°	34.1	2.4
40°-50°	7.0	0.5
50°-60°	2.0	0.1
60°-70°	0.8	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°	1371.9	96.9
0°-40°	1406.0	99.3
0°-60°	1415.0	99.9
0°-90°	1416.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1416.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3927	3927	3927	3927	3927	
5°	3817	3807	3800	3810	3793	346
15°	2681	2669	2667	2671	2665	717
25°	504	622	638	628	503	292
35°	37	44	57	44	36	29
45°	8	8	10	7	6	6
55°	2	2	3	1	1	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	0

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P1219498

CATALOG NUMBER: LDSQA4A15935D010TE LAR35FL 4LSQAL1H

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3926.7	3926.7	3926.7	3926.7	3926.7
2.5°	3909.2	3895.0	3887.2	3904.1	3887.2
5°	3817.1	3806.7	3800.3	3810.0	3793.2
7.5°	3564.9	3554.5	3563.6	3563.6	3555.2
10°	3276.9	3271.1	3276.3	3289.9	3280.2
12.5°	2997.4	2992.9	2994.8	3009.1	2998.1
15°	2680.9	2669.2	2666.7	2670.6	2665.4
17.5°	2259.4	2242.0	2230.9	2240.0	2242.5
20°	1710.8	1710.8	1697.2	1705.0	1712.1
22.5°	1094.0	1119.3	1122.0	1120.6	1116.1
25°	504.5	621.9	638.2	627.8	502.6
27.5°	204.2	252.3	313.9	260.1	197.1
30°	120.6	127.1	145.9	125.1	118.0
32.5°	63.6	76.5	89.5	75.8	61.6
35°	36.9	44.1	57.0	43.5	36.3
37.5°	24.0	27.9	38.2	27.9	22.7
40°	16.2	18.1	25.2	17.5	14.3
42.5°	11.0	12.3	16.2	11.0	9.1
45°	7.8	8.4	9.7	7.1	5.8
47.5°	5.1	5.8	6.5	4.6	3.9
50°	3.9	3.9	4.6	3.3	2.6
52.5°	2.6	3.3	3.3	2.0	2.0
55°	2.0	2.0	2.6	1.3	1.3
57.5°	2.0	2.0	2.0	1.3	1.3
60°	1.3	1.3	1.3	1.3	1.3
62.5°	0.7	1.3	1.3	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)