

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: P1212477

Luminaire Tested: **LDSQA6A25930D010TE LAR35FL 6LSQA1H**

Issue Date: 3/3/2020

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

**Test Information**

Test Method: LM-41-14
Report Number: P1212477
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29057)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDSQA6A25930D010TE LAR35FL 6LSQA1H
Description: PORTFOLIO 6" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,
SELF-FLANGED, 35° FLOOD
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

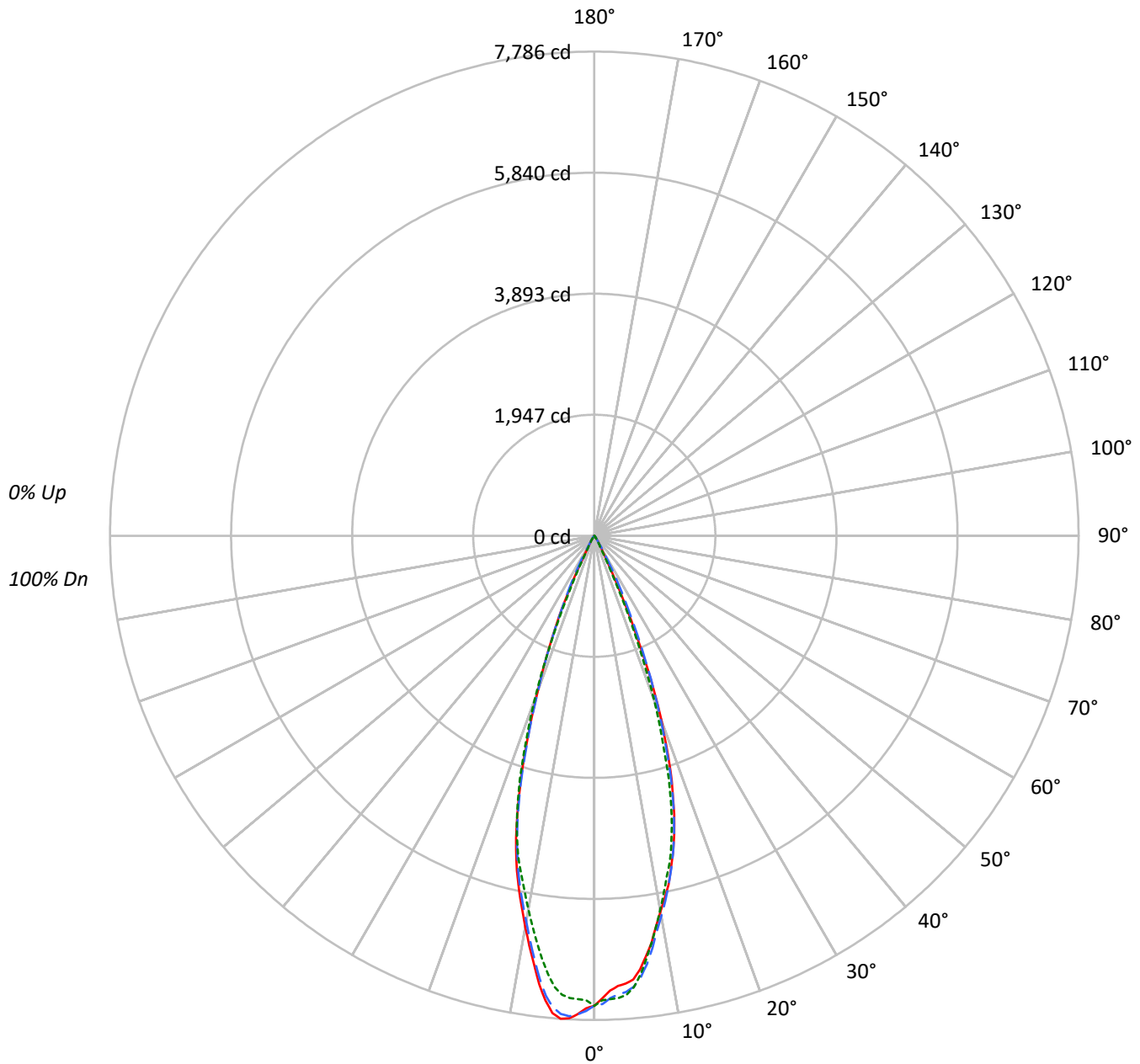
Lumens per Lamp: N/A
Luminaire Lumens: 2518.1 lumens
Efficiency: N/A
Efficacy: 80.7 lumens/watt
Spacing Criteria (0/90/45): 0.6 / 0.59 / 0.55
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 31.2
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: P1212477

CATALOG NUMBER: LDSQA6A25930D010TE LAR35FL 6LSQA1H

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P1212477

CATALOG NUMBER: LDSQA6A25930D010TE LAR35FL 6LSQA1H

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	113	111	109	107		107	105	104			103	102	101			100
2	111	107	104	102	109	106	103	101		103	100	98			100	98	96			97
3	107	103	99	96	106	101	98	95		99	96	94			96	94	92			94
4	104	98	94	91	102	97	93	91		95	92	90			93	91	89			92
5	101	94	90	87	99	94	90	87		92	89	86			90	88	85			89
6	97	91	87	84	96	90	86	83		89	85	83			88	85	82			87
7	94	88	83	80	93	87	83	80		86	82	80			85	82	79			84
8	92	85	80	77	91	84	80	77		83	80	77			82	79	77			82
9	89	82	78	75	88	82	78	75		81	77	75			80	77	74			79
10	86	79	75	72	86	79	75	72		78	75	72			78	74	72			77

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	325522	325522	325522
5°	309672	315044	333011
10°	268300	266844	279243
15°	221544	214591	215487
20°	144091	128380	122359
25°	43307	33103	44077
30°	9451	6876	7298
35°	3369	2071	2271
40°	1000	652	787
45°	286	189	237
50°	54	54	107
55°	60	0	120
60°	69	0	0
65°	82	0	0
70°	101	0	0
75°	0	0	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: P1212477

CATALOG NUMBER: LDSQA6A25930D010TE LAR35FL 6LSQA1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	666.0	26.4
10°-20°	1292.7	51.3
20°-30°	510.8	20.3
30°-40°	42.0	1.7
40°-50°	5.8	0.2
50°-60°	0.7	0.0
60°-70°	0.2	0.0
70°-80°	0.1	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°	2469.5	98.1
0°-40°	2511.4	99.7
0°-60°	2517.9	100.0
0°-90°	2518.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2518.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	7560	7560	7560	7560	7560	
5°	7165	7279	7289	7617	7705	648
15°	4970	4957	4814	4775	4834	1328
25°	912	1232	697	1021	928	512
35°	64	65	39	55	43	48
45°	5	11	3	8	4	5
55°	1	1	0	1	2	1
65°	1	0	0	0	0	1
75°	0	0	0	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: P1212477

CATALOG NUMBER: LDSQA6A25930D010TE LAR35FL 6LSQA1H

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	7560.5	7560.5	7560.5	7560.5	7560.5	7560.5	7560.5	7560.5	7560.5
1°	7438.4	7353.4	7531.1	7524.2	7468.5	7625.3	7641.5	7742.7	7599.1
2°	7318.7	7251.4	7438.4	7457.7	7457.7	7653.2	7704.2	7830.8	7698.7
3°	7249.2	7193.6	7388.2	7439.2	7444.5	7662.4	7737.4	7879.5	7771.3
4°	7219.0	7168.0	7352.6	7392.0	7399.7	7629.9	7708.8	7871.1	7786.1
5°	7165.0	7107.8	7279.2	7285.5	7289.3	7524.9	7616.9	7777.6	7705.0
6°	7012.0	6981.8	7138.6	7104.7	7093.8	7345.7	7439.2	7589.0	7515.7
7°	6811.9	6791.8	6939.4	6887.7	6860.5	7095.4	7182.0	7324.0	7266.2
8°	6607.2	6558.5	6699.1	6654.3	6608.8	6811.2	6886.9	7018.1	6964.1
9°	6351.5	6326.8	6431.1	6416.5	6354.6	6562.4	6590.2	6718.5	6674.3
10°	6136.8	6106.6	6211.6	6183.8	6103.5	6285.0	6304.3	6427.2	6387.1
11°	5928.2	5888.7	5978.4	5942.8	5852.4	6015.5	6028.6	6142.9	6102.0
12°	5736.6	5672.5	5742.8	5700.2	5604.5	5748.1	5754.4	5861.7	5823.9
13°	5483.2	5440.8	5496.4	5450.7	5389.7	5470.8	5458.5	5560.5	5525.8
14°	5239.1	5185.8	5236.7	5181.9	5117.8	5171.8	5136.3	5225.2	5198.2
15°	4970.2	4917.0	4957.2	4889.9	4814.2	4834.3	4774.8	4857.4	4834.3
16°	4657.4	4604.1	4638.9	4557.0	4467.3	4455.8	4377.0	4449.6	4425.7
17°	4304.4	4265.7	4289.6	4187.0	4092.7	4052.5	3948.2	4012.3	3988.4
18°	3968.3	3892.6	3902.6	3788.4	3644.6	3620.0	3502.6	3563.6	3539.7
19°	3528.0	3492.4	3497.9	3368.9	3223.7	3178.0	3061.4	3115.5	3088.4
20°	3144.8	3090.8	3086.1	2946.3	2801.9	2753.9	2641.1	2696.8	2670.5
21°	2706.8	2740.1	2682.1	2534.6	2356.1	2360.8	2261.1	2266.5	2284.3
22°	2214.1	2335.2	2285.9	2111.2	1887.9	1990.7	1901.1	1907.4	1922.8
23°	1726.5	1852.4	1897.2	1685.6	1443.1	1647.7	1576.7	1581.4	1591.3
24°	1281.6	1459.3	1539.6	1297.0	1039.0	1325.6	1285.4	1290.9	1280.0
25°	911.6	1120.1	1232.1	957.9	696.8	1029.7	1021.3	1029.7	927.8
26°	615.7	844.3	971.8	672.0	431.1	760.9	812.6	794.1	601.8
27°	393.9	642.0	747.1	439.6	273.4	523.8	606.3	601.0	345.3
28°	277.3	445.7	551.6	270.4	210.9	329.0	433.3	395.5	220.9
29°	234.1	289.7	384.8	192.3	171.4	194.7	290.5	231.0	180.7
30°	190.1	192.3	252.6	155.2	138.3	139.0	185.4	151.4	146.8
32.5°	115.8	115.0	108.9	91.1	81.1	81.1	90.4	87.2	86.6
35°	64.1	70.4	64.9	54.8	39.4	48.7	54.8	51.7	43.2
37.5°	34.7	41.0	44.8	30.2	21.7	28.6	37.1	30.2	24.7
40°	17.8	22.3	31.7	17.0	11.6	16.2	25.5	17.0	14.0
42.5°	9.3	12.4	20.1	9.3	5.5	9.3	16.2	9.3	6.9
45°	4.7	6.1	10.8	4.7	3.1	4.7	8.5	5.5	3.9
47.5°	2.3	3.1	5.5	2.3	0.8	2.3	4.7	2.3	2.3
50°	0.8	1.6	3.1	0.8	0.8	0.8	2.3	1.6	1.6
52.5°	0.8	0.8	1.6	0.8	0.0	0.8	1.6	0.8	1.6
55°	0.8	0.8	0.8	0.0	0.0	0.8	0.8	0.8	1.6
57.5°	0.8	0.8	0.8	0.0	0.0	0.0	0.8	0.8	1.6
60°	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.8	0.0



TEST NUMBER: P1212477

CATALOG NUMBER: LDSQA6A25930D010TE LAR35FL 6LSQA1H

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	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





— 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



62.5°	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Classified

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)