

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: P1212485

Luminaire Tested: **LDSQA6A25935D010TE LARL15SP 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: P1212485
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29053)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDSQA6A25935D010TE LARL15SP 6LSQA1H
Description: PORTFOLIO 6" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,
SELF-FLANGED, 15° SPOT
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

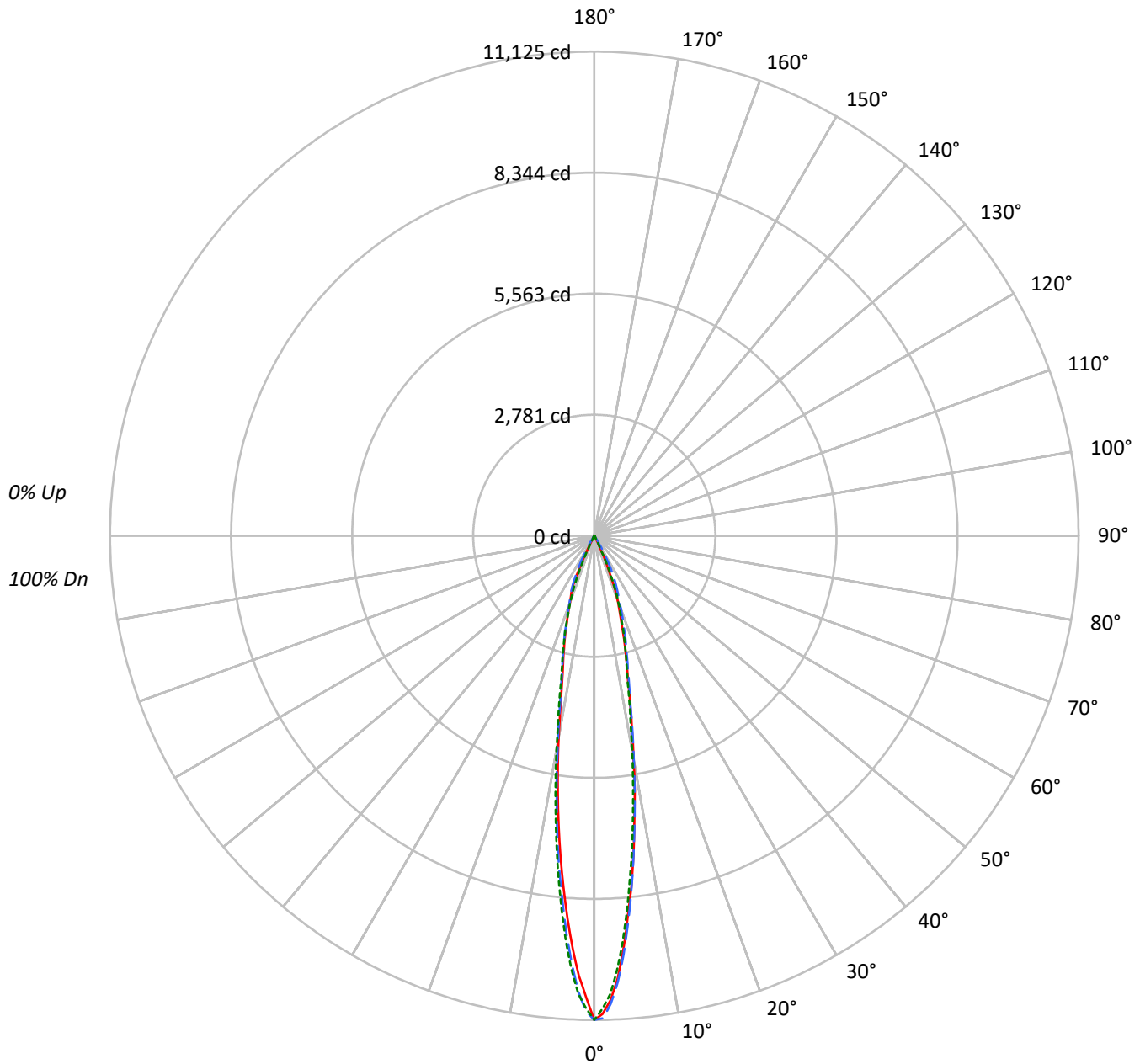
Lumens per Lamp: N/A
Luminaire Lumens: 1881.6 lumens
Efficiency: N/A
Efficacy: 60.3 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.31 / 0.36
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

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: P1212485

CATALOG NUMBER: LDSQA6A25935D010TE LARL15SP 6LSQA1H

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P1212485

CATALOG NUMBER: LDSQA6A25935D010TE LARL15SP 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	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	110	113	111	109	108	107	106	105	103	102	101	100	99	99	97		
2	112	108	105	103	109	106	104	102	103	101	99	100	99	97	98	96	95	94		
3	108	104	100	97	106	102	99	97	100	97	95	98	95	94	96	94	92	91		
4	105	100	96	93	103	99	95	93	97	94	91	95	92	90	93	91	90	88		
5	102	96	92	89	101	95	92	89	94	91	88	92	90	88	91	89	87	86		
6	99	93	89	86	98	92	89	86	91	88	85	90	87	85	89	86	84	83		
7	97	90	86	83	95	90	86	83	89	85	83	88	85	82	87	84	82	81		
8	94	88	84	81	93	87	83	81	86	83	80	85	82	80	85	82	80	79		
9	92	85	81	79	91	85	81	79	84	81	78	83	80	78	83	80	78	77		
10	89	83	79	77	89	83	79	76	82	79	76	81	78	76	81	78	76	75		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	479011	479011	479011
5°	380808	372679	350593
10°	226880	218525	205597
15°	123971	124176	120280
20°	71024	72994	75028
25°	18751	19492	35022
30°	2560	2367	2287
35°	1030	988	946
40°	393	393	393
45°	189	146	189
50°	107	54	161
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



TEST NUMBER: P1212485

CATALOG NUMBER: LDSQA6A25935D010TE LARL15SP 6LSQA1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	706.5	37.5
10°-20°	795.1	42.3
20°-30°	354.0	18.8
30°-40°	21.6	1.1
40°-50°	3.5	0.2
50°-60°	0.6	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°	1855.6	98.6
0°-40°	1877.2	99.8
0°-60°	1881.3	100.0
0°-90°	1881.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1881.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	11125	11125	11125	11125	11125	
5°	8811	8914	8623	8421	8112	724
15°	2781	2902	2786	2766	2698	784
25°	395	1055	410	1019	737	233
35°	20	31	19	32	18	14
45°	3	6	2	6	3	3
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: P1212485

CATALOG NUMBER: LDSQA6A25935D010TE LARL15SP 6LSQA1H

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	11125.4	11125.4	11125.4	11125.4	11125.4	11125.4	11125.4	11125.4	11125.4
1°	10988.9	11089.5	11089.5	11065.3	10864.9	11013.9	10929.7	10839.1	10603.6
2°	10673.0	10775.1	10765.0	10673.0	10527.9	10589.5	10474.0	10361.6	10114.4
3°	10185.4	10295.4	10275.0	10179.2	9985.6	10023.1	9857.7	9772.7	9488.8
4°	9530.1	9669.8	9645.6	9539.4	9345.2	9342.9	9169.7	9079.9	8817.1
5°	8810.9	8956.6	8913.8	8826.4	8622.8	8586.1	8420.8	8356.8	8111.8
6°	8119.6	8210.9	8166.5	8093.8	7873.9	7851.3	7694.4	7639.8	7413.6
7°	7383.1	7446.4	7402.6	7346.5	7124.1	7094.5	6966.5	6923.7	6702.9
8°	6606.9	6697.5	6635.0	6599.9	6390.0	6349.4	6220.8	6191.9	6014.8
9°	5943.8	5974.2	5908.0	5802.7	5681.0	5639.6	5503.0	5474.9	5350.9
10°	5189.4	5283.8	5232.4	5141.8	4998.3	5029.5	4831.4	4808.0	4702.6
11°	4533.3	4632.4	4577.9	4496.7	4367.2	4385.1	4222.9	4124.6	4108.1
12°	3992.0	4037.2	4020.9	3955.3	3850.7	3856.2	3711.9	3633.0	3616.7
13°	3464.5	3545.6	3553.5	3499.6	3374.1	3431.8	3324.2	3260.2	3234.4
14°	3107.3	3168.9	3193.9	3192.3	3056.6	3107.3	3022.3	2970.7	2945.0
15°	2781.2	2861.5	2902.1	2899.8	2785.8	2837.3	2766.4	2725.8	2698.4
16°	2475.4	2585.4	2651.6	2640.7	2534.6	2587.6	2517.4	2477.7	2447.3
17°	2168.0	2319.4	2416.9	2395.7	2284.9	2352.1	2284.9	2250.6	2218.7
18°	1931.6	2055.6	2192.9	2147.7	2024.4	2128.9	2071.2	2043.9	2014.3
19°	1719.4	1804.4	1983.0	1902.7	1791.2	1909.7	1866.8	1845.0	1816.9
20°	1550.1	1623.4	1782.6	1687.4	1593.1	1689.8	1678.1	1660.9	1637.5
21°	1333.2	1472.8	1600.8	1512.6	1388.7	1525.1	1540.0	1530.6	1513.4
22°	1055.5	1306.7	1469.0	1308.3	1146.1	1405.0	1435.5	1428.4	1415.9
23°	821.5	1110.9	1347.3	1120.3	892.4	1271.6	1316.8	1312.2	1270.8
24°	599.2	909.6	1194.3	899.5	642.0	1089.8	1176.4	1168.7	1018.9
25°	394.7	708.4	1054.7	674.8	410.3	881.5	1018.9	1005.6	737.2
26°	253.5	518.0	929.1	461.1	218.4	658.5	851.9	814.5	457.1
27°	121.7	361.2	775.4	271.5	106.1	439.2	683.4	600.0	220.8
28°	76.5	189.5	616.3	135.0	71.8	244.2	523.5	380.6	86.6
29°	62.4	93.6	456.3	76.5	58.5	112.4	375.2	185.7	60.1
30°	51.5	62.4	311.2	58.5	47.6	62.4	246.6	72.6	46.0
32.5°	32.7	39.0	71.8	36.7	31.3	35.9	58.5	35.1	28.9
35°	19.6	25.0	31.3	24.2	18.8	23.4	31.9	22.6	18.0
37.5°	11.7	14.8	20.3	14.8	11.7	14.8	20.3	14.8	10.9
40°	7.0	9.3	14.1	9.3	7.0	9.3	14.1	9.3	7.0
42.5°	4.7	5.5	9.3	5.5	3.9	5.5	9.3	6.3	4.7
45°	3.1	3.9	5.5	3.1	2.4	3.1	5.5	3.9	3.1
47.5°	2.4	2.4	3.1	1.6	1.6	2.4	3.9	3.1	2.4
50°	1.6	1.6	2.4	0.8	0.8	0.8	2.4	2.4	2.4
52.5°	0.8	0.8	0.8	0.0	0.0	0.0	1.6	1.6	1.6
55°	0.8	0.8	0.8	0.0	0.0	0.0	0.8	1.6	1.6
57.5°	0.8	0.8	0.0	0.0	0.0	0.0	0.0	1.6	1.6
60°	0.8	0.8	0.0	0.0	0.0	0.0	0.0	1.6	0.0

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P1212485

CATALOG NUMBER: LDSQA6A25935D010TE LARL15SP 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)