

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: P1219474

Luminaire Tested: **LDSQA4A15930D010TE LAR15SP 4LSQA1H**

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: P1219474
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26794)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDSQA4A15930D010TE LAR15SP 4LSQA1H
Description: PORTFOLIO 4" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,
SELF-FLANGED, 15° SPOT
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

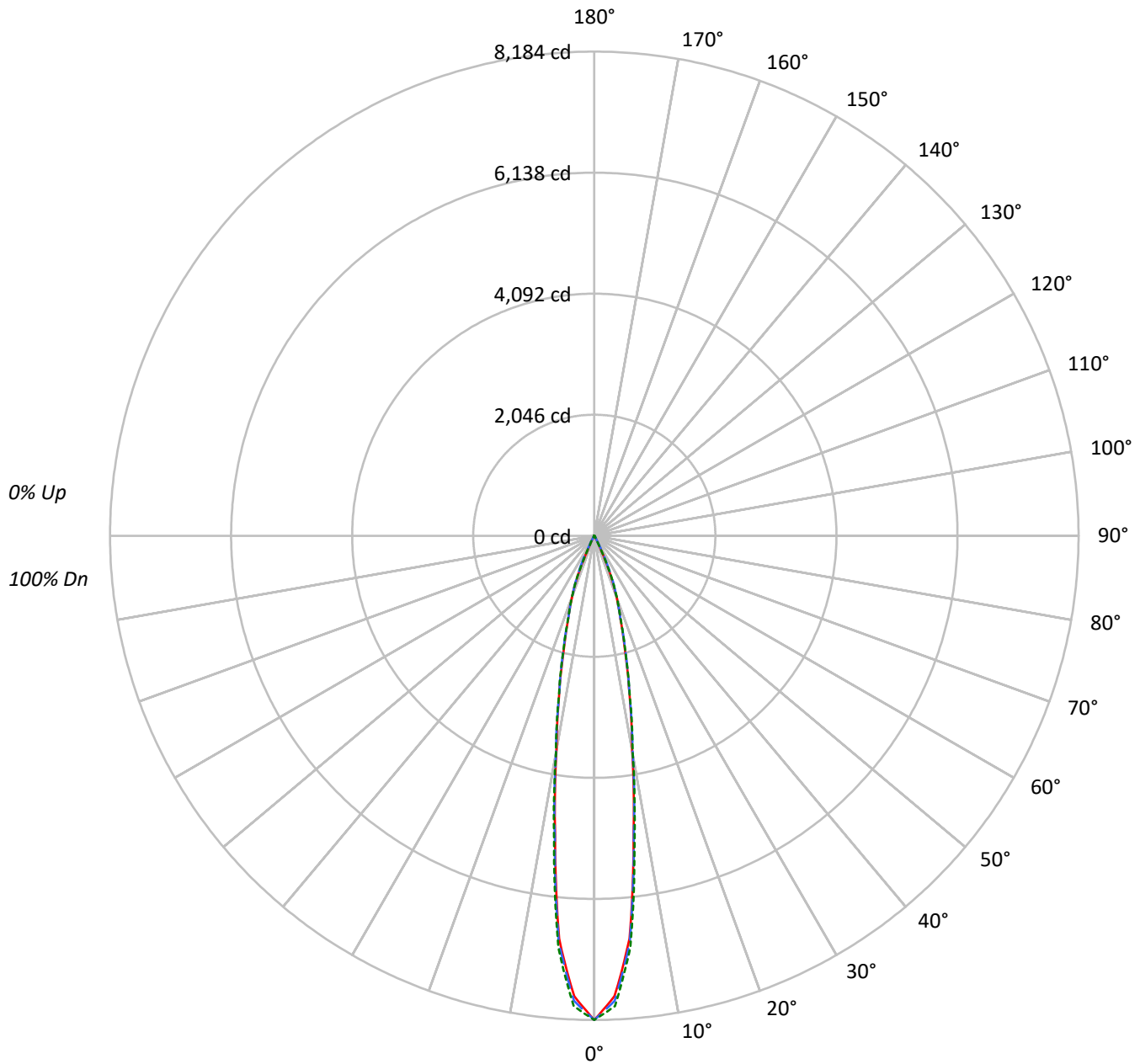
Lumens per Lamp: N/A
Luminaire Lumens: 1343.6 lumens
Efficiency: N/A
Efficacy: 65.9 lumens/watt
Spacing Criteria (0/90/45): 0.32 / 0.32 / 0.36
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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: P1219474

CATALOG NUMBER: LDSQA4A15930D010TE LAR15SP 4LSQA1H

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P1219474

CATALOG NUMBER: LDSQA4A15930D010TE LAR15SP 4LSQA1H

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	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			100
1	115	113	111	110	113	111	110	108		107	106	105			104	103	102			97
2	112	108	105	103	110	107	104	102		104	102	100			101	99	98			94
3	108	104	101	98	107	103	100	97		100	98	96			98	96	94			92
4	105	100	97	94	104	99	96	93		97	95	92			96	93	91			89
5	103	97	93	90	101	96	93	90		95	92	89			93	91	89			87
6	100	94	90	87	99	93	90	87		92	89	87			91	88	86			85
7	97	91	88	85	96	91	87	85		90	87	84			89	86	84			82
8	95	89	85	82	94	88	85	82		88	84	82			87	84	82			80
9	93	87	83	80	92	86	83	80		85	82	80			85	82	80			79
10	91	84	81	78	90	84	81	78		83	80	78			83	80	78			77

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	792858	792858	792858
5°	664556	670177	679911
10°	361549	366910	368307
15°	199934	203143	203925
20°	113216	113546	114206
25°	30891	48389	30335
30°	4967	7540	4821
35°	1679	2815	1597
40°	721	1138	721
45°	438	534	356
50°	286	286	196
55°	220	220	101
60°	116	116	116
65°	138	138	138
70°	170	170	170
75°	0	0	0
80°	0	0	0
85°	0	0	0



TEST NUMBER: P1219474

CATALOG NUMBER: LDSQA4A15930D010TE LAR15SP 4LSQA1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	545.5	40.6
10°-20°	576.9	42.9
20°-30°	203.0	15.1
30°-40°	13.7	1.0
40°-50°	2.8	0.2
50°-60°	0.9	0.1
60°-70°	0.6	0.0
70°-80°	0.2	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°	1325.4	98.6
0°-40°	1339.0	99.7
0°-60°	1342.8	99.9
0°-90°	1343.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1343.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8184	8184	8184	8184	8184	
5°	6834	6936	6892	6904	6992	539
15°	1994	2027	2026	2021	2033	571
25°	289	439	453	432	284	179
35°	14	17	24	17	14	11
45°	3	3	4	3	3	3
55°	1	1	1	1	1	1
65°	1	1	1	1	1	1
75°	0	1	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: P1219474

CATALOG NUMBER: LDSQA4A15930D010TE LAR15SP 4LSQA1H

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8184.3	8184.3	8184.3	8184.3	8184.3
2.5°	7791.3	7893.4	7867.7	7851.0	7958.2
5°	6833.8	6936.5	6891.6	6904.4	6991.7
7.5°	5080.5	5167.2	5121.0	5140.3	5207.0
10°	3675.4	3761.4	3729.9	3740.2	3744.1
12.5°	2740.3	2778.2	2753.2	2760.2	2773.1
15°	1993.5	2026.8	2025.5	2021.0	2033.3
17.5°	1462.9	1479.0	1462.9	1462.3	1470.6
20°	1098.2	1120.7	1101.4	1103.9	1107.8
22.5°	737.9	782.9	775.2	765.5	755.3
25°	289.0	438.7	452.7	431.5	283.8
27.5°	82.9	136.8	194.6	134.2	80.3
30°	44.4	52.7	67.4	51.4	43.1
32.5°	23.8	30.2	38.5	29.5	23.2
35°	14.2	17.3	23.8	17.3	13.5
37.5°	9.0	10.9	14.8	10.9	9.0
40°	5.7	7.0	9.0	7.0	5.7
42.5°	4.5	5.1	5.7	4.5	3.9
45°	3.2	3.2	3.9	3.2	2.6
47.5°	2.6	2.6	2.6	1.9	1.9
50°	1.9	1.9	1.9	1.3	1.3
52.5°	1.3	1.3	1.3	1.3	1.3
55°	1.3	1.3	1.3	0.6	0.6
57.5°	1.3	0.6	0.6	0.6	0.6
60°	0.6	0.6	0.6	0.6	0.6
62.5°	0.6	0.6	0.6	0.6	0.6
65°	0.6	0.6	0.6	0.6	0.6
67.5°	0.6	0.6	0.6	0.6	0.0
70°	0.6	0.6	0.6	0.6	0.6
72.5°	0.6	0.6	0.6	0.0	0.0
75°	0.0	0.6	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	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)