

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: P1219558

Luminaire Tested: **LDSQA4A30950D010TE 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: P1219558
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: LDSQA4A30950D010TE LAR15SP 4LSQA1H
Description: PORTFOLIO 4" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,
SELF-FLANGED, 15° SPOT
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

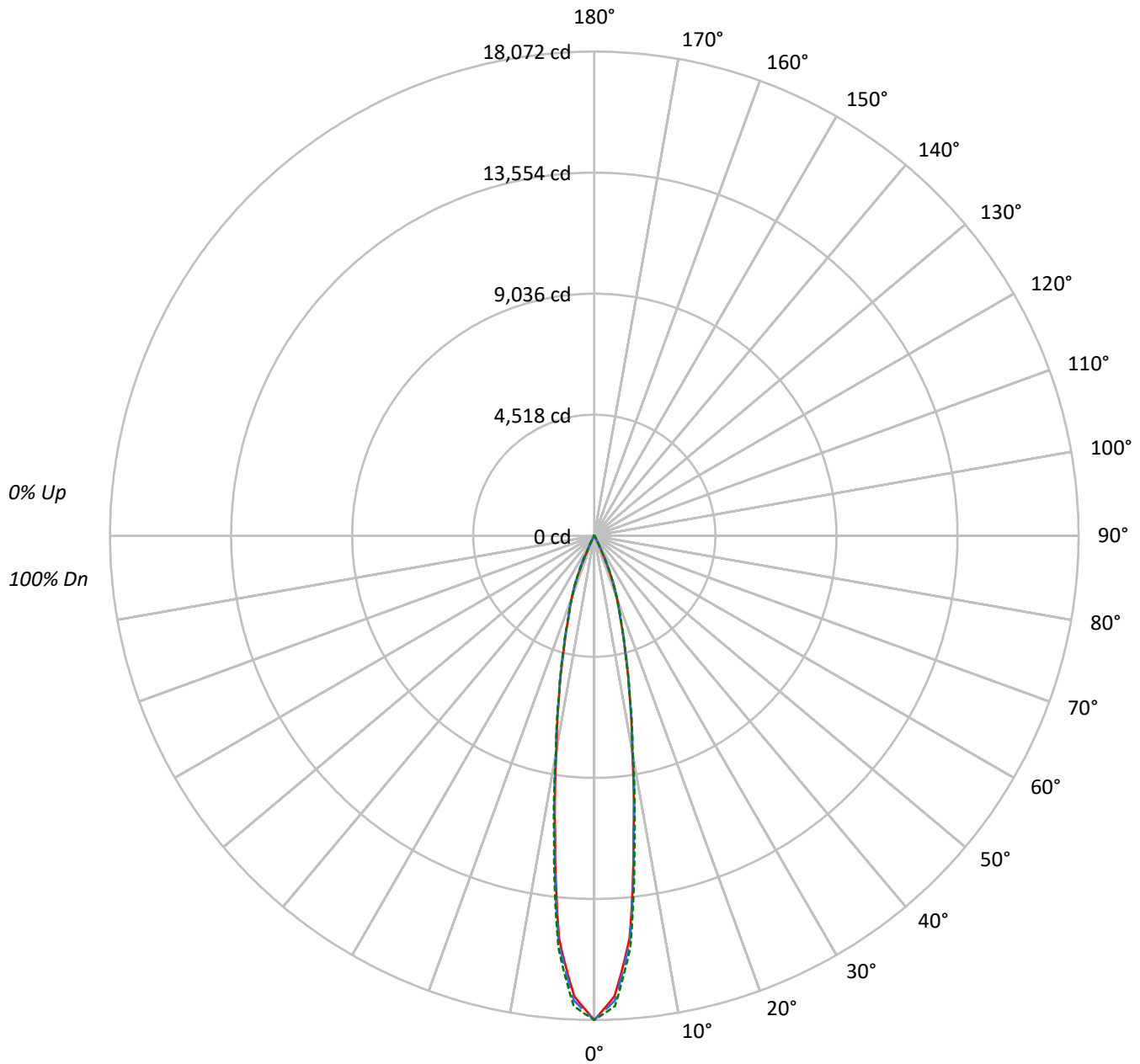
Lumens per Lamp: N/A
Luminaire Lumens: 2967.0 lumens
Efficiency: N/A
Efficacy: 74.5 lumens/watt
Spacing Criteria (0/90/45): 0.32 / 0.32 / 0.36
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 39.8
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: P1219558

CATALOG NUMBER: LDSQA4A30950D010TE LAR15SP 4LSQA1H

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P1219558

CATALOG NUMBER: LDSQA4A30950D010TE 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°	1750704	1750704	1750704
5°	1467386	1479794	1501305
10°	798311	810184	813244
15°	441449	448570	450265
20°	249989	250711	252185
25°	68207	106869	66988
30°	10951	16656	10627
35°	3678	6197	3512
40°	1619	2517	1619
45°	973	1151	767
50°	648	648	422
55°	473	473	253
60°	291	291	291
65°	344	344	344
70°	425	425	425
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: P1219558

CATALOG NUMBER: LDSQA4A30950D010TE LAR15SP 4LSQA1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1204.6	40.6
10°-20°	1273.8	42.9
20°-30°	448.2	15.1
30°-40°	30.2	1.0
40°-50°	6.3	0.2
50°-60°	2.1	0.1
60°-70°	1.4	0.0
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°	2926.5	98.6
0°-40°	2956.7	99.7
0°-60°	2965.1	99.9
0°-90°	2967.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2967.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	18072	18072	18072	18072	18072	
5°	15090	15316	15217	15245	15438	1191
15°	4402	4475	4473	4462	4490	1261
25°	638	968	1000	953	627	395
35°	31	38	52	38	30	24
45°	7	7	8	7	6	6
55°	3	3	3	2	2	3
65°	2	2	2	2	2	1
75°	0	2	0	0	0	1
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: P1219558

CATALOG NUMBER: LDSQA4A30950D010TE LAR15SP 4LSQA1H

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	18071.7	18071.7	18071.7	18071.7	18071.7
2.5°	17203.8	17429.3	17372.5	17335.7	17572.5
5°	15089.5	15316.4	15217.1	15245.4	15438.3
7.5°	11218.3	11409.6	11307.5	11350.0	11497.6
10°	8115.4	8305.4	8236.1	8258.7	8267.2
12.5°	6050.7	6134.4	6079.2	6094.8	6123.1
15°	4401.6	4475.4	4472.6	4462.5	4489.5
17.5°	3230.2	3265.8	3230.2	3228.9	3247.3
20°	2424.9	2474.5	2431.9	2437.6	2446.2
22.5°	1629.3	1728.6	1711.5	1690.3	1667.6
25°	638.1	968.4	999.8	953.0	626.7
27.5°	182.9	302.0	429.6	296.4	177.2
30°	97.9	116.3	148.9	113.4	95.0
32.5°	52.4	66.7	85.1	65.2	51.0
35°	31.1	38.3	52.4	38.3	29.7
37.5°	19.9	24.1	32.7	24.1	19.9
40°	12.8	15.6	19.9	15.6	12.8
42.5°	9.9	11.4	12.8	9.9	8.4
45°	7.1	7.1	8.4	7.1	5.6
47.5°	5.6	5.6	5.6	4.3	4.3
50°	4.3	4.3	4.3	2.8	2.8
52.5°	2.8	2.8	2.8	2.8	2.8
55°	2.8	2.8	2.8	1.5	1.5
57.5°	2.8	1.5	1.5	1.5	1.5
60°	1.5	1.5	1.5	1.5	1.5
62.5°	1.5	1.5	1.5	1.5	1.5
65°	1.5	1.5	1.5	1.5	1.5
67.5°	1.5	1.5	1.5	1.5	0.0
70°	1.5	1.5	1.5	1.5	1.5
72.5°	1.5	1.5	1.5	0.0	0.0
75°	0.0	1.5	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)