

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: P1212245

Luminaire Tested: **LDSQA4A25930D010TE LAR15SP 4LSQA1H-LSF-20**

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: P1212245
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26829)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDSQA4A25930D010TE LAR15SP 4LSQA1H-LSF-20
Description: PORTFOLIO 4" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,
SELF-FLANGED, 15° SPOT WITH SOLITE LENS
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

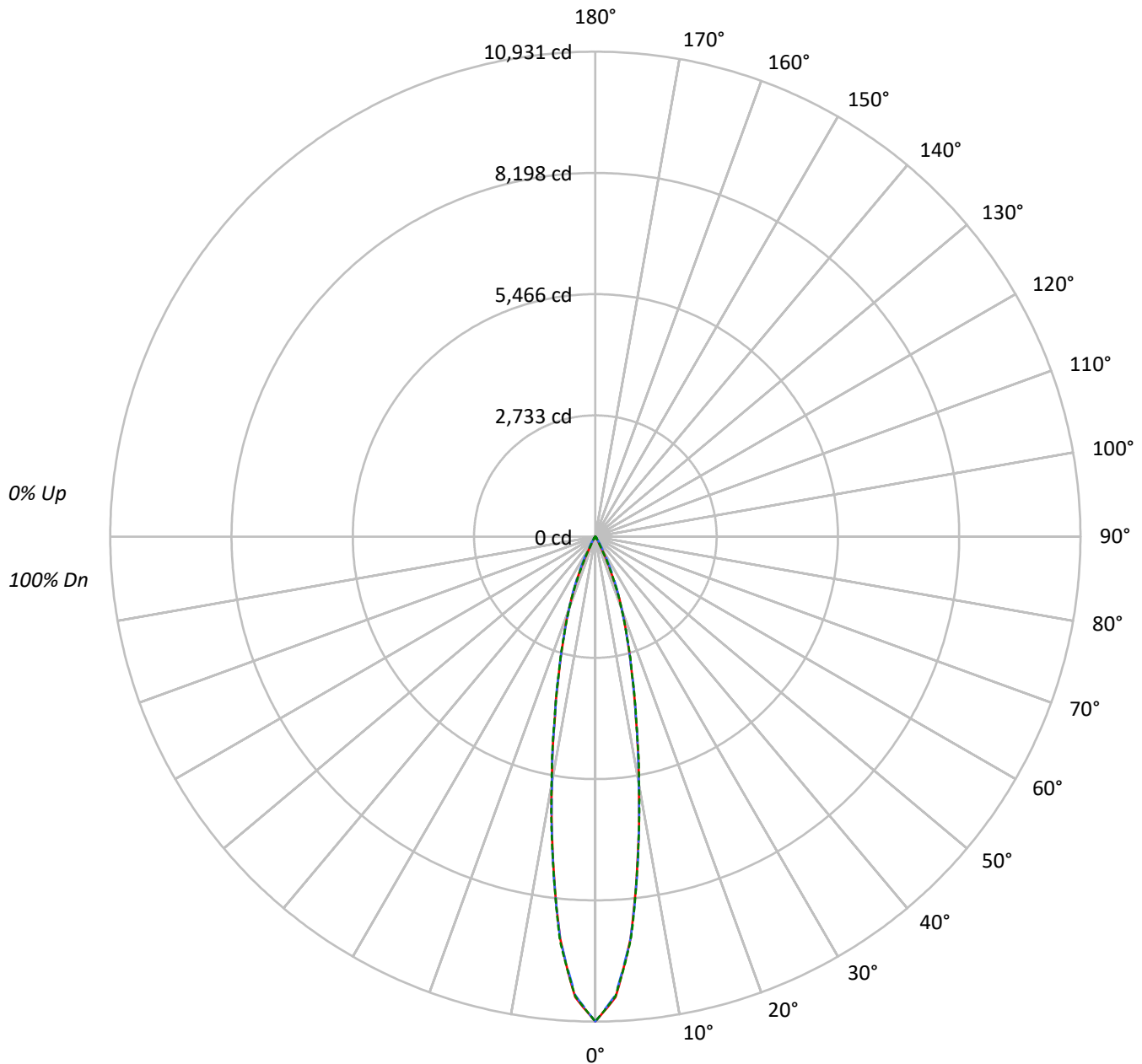
Lumens per Lamp: N/A
Luminaire Lumens: 2072.9 lumens
Efficiency: N/A
Efficacy: 67.1 lumens/watt
Spacing Criteria (0/90/45): 0.35 / 0.35 / 0.39
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 30.9
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: P1212245

CATALOG NUMBER: LDSQA4A25930D010TE LAR15SP 4LSQA1H-LSF-20

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P1212245

CATALOG NUMBER: LDSQA4A25930D010TE LAR15SP 4LSQA1H-LSF-20

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1058907	1058907	1058907
5°	884127	884127	888318
10°	553881	552632	558229
15°	316083	317878	318400
20°	178938	178402	177649
25°	67170	86870	68634
30°	13770	29084	13893
35°	5476	9461	5357
40°	2795	4123	2656
45°	1877	2165	1589
50°	1100	1100	784
55°	524	709	355
60°	407	407	213
65°	252	252	252
70°	312	312	312
75°	0	0	0
80°	0	0	0
85°	0	0	0



TEST NUMBER: P1212245

CATALOG NUMBER: LDSQA4A25930D010TE LAR15SP 4LSQA1H-LSF-20

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	755.3	36.4
10°-20°	898.3	43.3
20°-30°	358.1	17.3
30°-40°	45.2	2.2
40°-50°	11.1	0.5
50°-60°	3.2	0.2
60°-70°	1.2	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°	2011.7	97.0
0°-40°	2056.9	99.2
0°-60°	2071.3	99.9
0°-90°	2072.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2072.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10931	10931	10931	10931	10931	
5°	9092	9175	9092	9100	9135	753
15°	3152	3171	3170	3170	3175	896
25°	628	772	813	740	642	323
35°	46	56	80	54	45	34
45°	14	14	16	13	12	11
55°	3	3	4	3	2	4
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	

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P1212245

CATALOG NUMBER: LDSQA4A25930D010TE LAR15SP 4LSQA1H-LSF-20

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10930.6	10930.6	10930.6	10930.6	10930.6
2.5°	10393.8	10449.5	10342.1	10352.7	10366.4
5°	9091.7	9174.7	9091.7	9100.0	9134.8
7.5°	7315.9	7388.5	7341.1	7362.1	7324.2
10°	5630.6	5656.9	5617.9	5636.8	5674.8
12.5°	4233.7	4263.2	4234.8	4235.8	4252.7
15°	3151.6	3170.6	3169.5	3169.5	3174.7
17.5°	2353.7	2379.0	2351.6	2353.7	2360.0
20°	1735.7	1752.6	1730.5	1727.4	1723.2
22.5°	1184.2	1220.0	1233.7	1215.8	1158.9
25°	628.4	771.6	812.7	740.0	642.1
27.5°	252.7	384.2	474.7	375.8	274.7
30°	123.1	167.4	260.0	171.5	124.2
32.5°	72.6	90.5	142.1	89.5	71.6
35°	46.3	55.8	80.0	53.7	45.3
37.5°	30.5	36.8	49.5	35.8	29.5
40°	22.1	25.3	32.6	24.2	21.0
42.5°	16.8	17.9	22.1	17.9	15.8
45°	13.7	13.7	15.8	12.7	11.6
47.5°	10.6	10.6	10.6	9.5	7.3
50°	7.3	7.3	7.3	6.3	5.2
52.5°	5.2	5.2	5.2	4.2	3.1
55°	3.1	3.1	4.2	3.1	2.1
57.5°	3.1	2.1	3.1	2.1	2.1
60°	2.1	2.1	2.1	1.1	1.1
62.5°	1.1	1.1	1.1	1.1	1.1
65°	1.1	1.1	1.1	1.1	1.1
67.5°	1.1	1.1	1.1	1.1	1.1
70°	1.1	1.1	1.1	1.1	1.1
72.5°	1.1	1.1	1.1	1.1	0.0
75°	0.0	1.1	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)