

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: P1212273

Luminaire Tested: **LDSQA4A25940D010TE 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: P1212273
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: LDSQA4A25940D010TE 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 / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

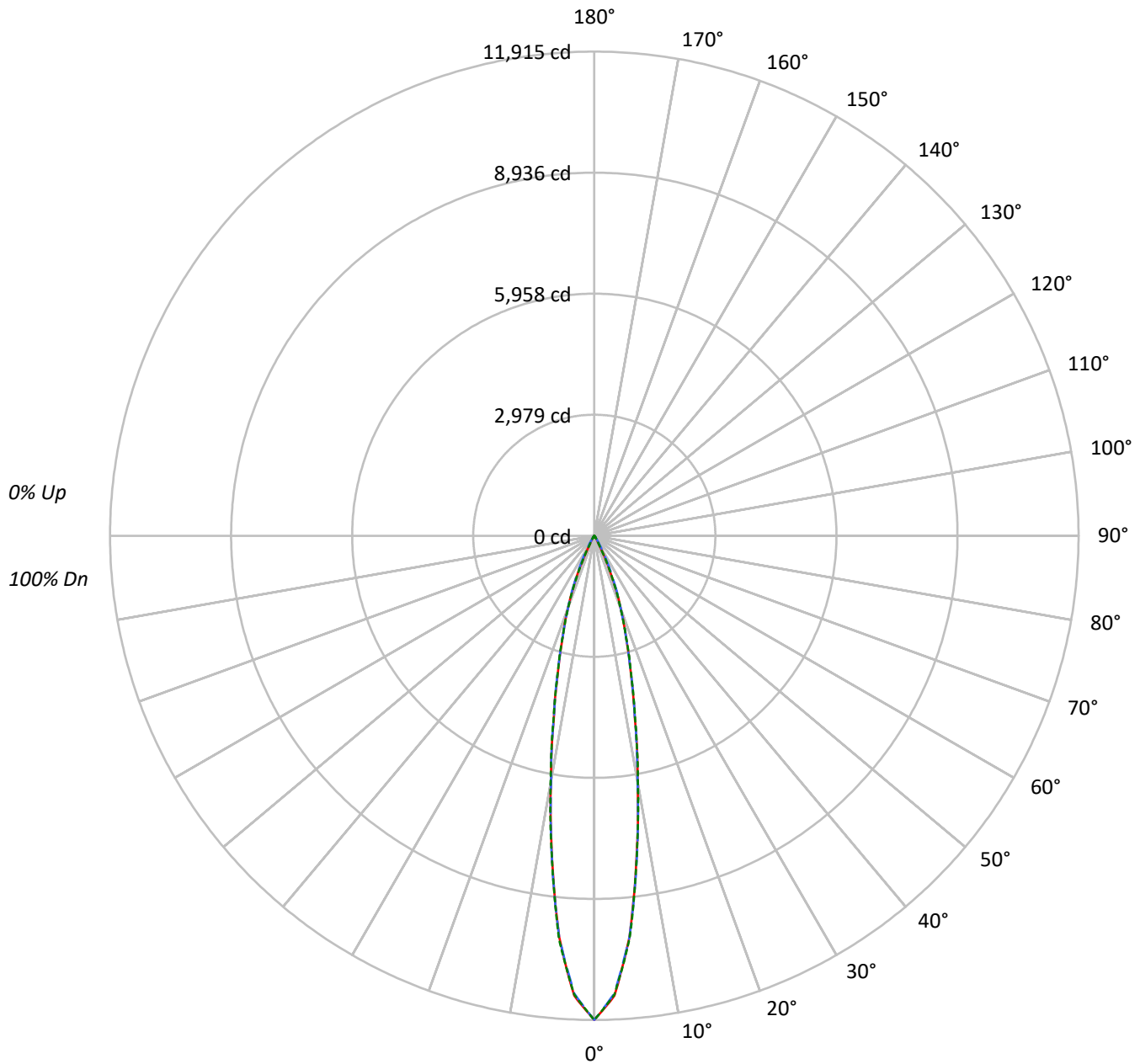
Lumens per Lamp: N/A
Luminaire Lumens: 2259.5 lumens
Efficiency: N/A
Efficacy: 73.1 lumens/watt
Spacing Criteria (0/90/45): 0.35 / 0.35 / 0.39
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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: P1212273

CATALOG NUMBER: LDSQA4A25940D010TE LAR15SP 4LSQA1H-LSF-20

Luminous Intensity Polar Plot



TEST NUMBER: P1212273

CATALOG NUMBER: LDSQA4A25940D010TE 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	76		81	78	75		80

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1154300	1154300	1154300
5°	963771	963771	968341
10°	603775	602417	608516
15°	344556	346512	347093
20°	195072	194474	193649
25°	73220	94683	74823
30°	15023	31702	15146
35°	5972	10313	5830
40°	3035	4489	2909
45°	2041	2356	1740
50°	1206	1206	859
55°	574	777	388
60°	446	446	213
65°	252	252	252
70°	312	312	312
75°	0	0	0
80°	0	0	0
85°	0	0	0



TEST NUMBER: P1212273

CATALOG NUMBER: LDSQA4A25940D010TE LAR15SP 4LSQA1H-LSF-20

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	823.3	36.4
10°-20°	979.2	43.3
20°-30°	390.4	17.3
30°-40°	49.2	2.2
40°-50°	12.1	0.5
50°-60°	3.6	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°	2193.0	97.1
0°-40°	2242.2	99.2
0°-60°	2257.9	99.9
0°-90°	2259.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2259.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11915	11915	11915	11915	11915	
5°	9911	10001	9911	9920	9958	821
15°	3436	3456	3455	3455	3461	976
25°	685	841	886	807	700	352
35°	50	61	87	58	49	37
45°	15	15	17	14	13	12
55°	3	3	5	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	0

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P1212273

CATALOG NUMBER: LDSQA4A25940D010TE LAR15SP 4LSQA1H-LSF-20

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11915.3	11915.3	11915.3	11915.3	11915.3
2.5°	11330.1	11390.9	11273.9	11285.3	11300.2
5°	9910.7	10001.3	9910.7	9919.8	9957.7
7.5°	7974.8	8054.0	8002.4	8025.4	7984.0
10°	6137.8	6166.5	6124.0	6144.6	6186.0
12.5°	4615.2	4647.2	4616.3	4617.4	4635.8
15°	3435.5	3456.2	3455.0	3455.0	3460.8
17.5°	2565.8	2593.2	2563.5	2565.8	2572.6
20°	1892.2	1910.6	1886.4	1883.0	1878.4
22.5°	1290.9	1329.9	1344.8	1325.3	1263.3
25°	685.0	841.1	885.8	806.7	700.0
27.5°	275.4	418.8	517.5	409.7	299.4
30°	134.3	182.5	283.4	187.0	135.4
32.5°	79.2	98.7	154.9	97.6	78.1
35°	50.5	60.8	87.2	58.5	49.3
37.5°	33.3	40.1	53.9	39.0	32.2
40°	24.0	27.6	35.5	26.5	23.0
42.5°	18.4	19.5	24.0	19.5	17.2
45°	14.9	14.9	17.2	13.8	12.7
47.5°	11.5	11.5	11.5	10.4	8.0
50°	8.0	8.0	8.0	6.9	5.7
52.5°	5.7	5.7	5.7	4.6	3.4
55°	3.4	3.4	4.6	3.4	2.3
57.5°	3.4	2.3	3.4	2.3	2.3
60°	2.3	2.3	2.3	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)