

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: P1212277

Luminaire Tested: **LDSQA4A25940D010TE LAR15SP 4LSQAL1H**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P1212277
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26796)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDSQA4A25940D010TE LAR15SP 4LSQAL1H
Description: PORTFOLIO 4" SQUARE LENSED ADJUSTABLE, SELF-FLANGED, 15° SPOT
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

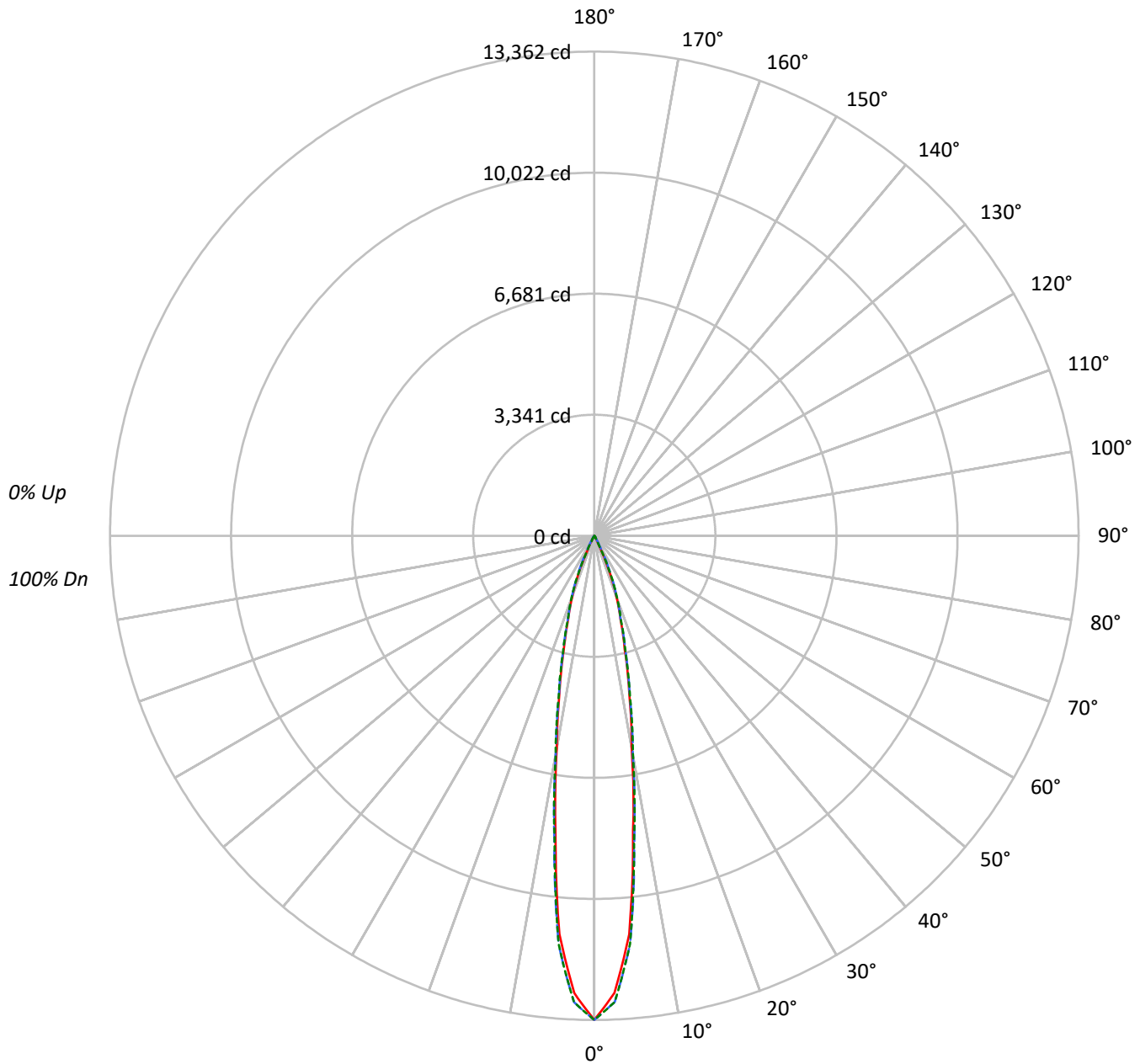
Lumens per Lamp: N/A
Luminaire Lumens: 2229.7 lumens
Efficiency: N/A
Efficacy: 72.2 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.32 / 0.36
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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: P1212277

CATALOG NUMBER: LDSQA4A25940D010TE LAR15SP 4LSQAL1H

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P1212277

CATALOG NUMBER: LDSQA4A25940D010TE LAR15SP 4LSQAL1H

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1294411	1294411	1294411
5°	1073687	1101470	1099914
10°	585045	602319	605378
15°	325290	334617	336342
20°	183392	188608	190969
25°	55198	81343	54963
30°	10403	14889	10403
35°	4470	6930	4612
40°	2175	3629	2175
45°	1425	1891	1096
50°	859	1040	512
55°	574	574	388
60°	446	213	213
65°	252	252	252
70°	0	312	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



TEST NUMBER: P1212277

CATALOG NUMBER: LDSQA4A25940D010TE LAR15SP 4LSQAL1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	889.6	39.9
10°-20°	948.2	42.5
20°-30°	345.8	15.5
30°-40°	33.0	1.5
40°-50°	9.1	0.4
50°-60°	2.7	0.1
60°-70°	1.1	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°	2183.7	97.9
0°-40°	2216.7	99.4
0°-60°	2228.4	99.9
0°-90°	2229.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2229.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13362	13362	13362	13362	13362	
5°	11041	11320	11327	11209	11311	872
15°	3243	3320	3336	3330	3354	928
25°	516	747	761	754	514	298
35°	38	46	59	46	39	27
45°	10	10	14	10	8	8
55°	3	3	3	2	2	3
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: P1212277

CATALOG NUMBER: LDSQA4A25940D010TE LAR15SP 4LSQAL1H

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	13361.6	13361.6	13361.6	13361.6	13361.6
2.5°	12632.9	12899.2	12879.6	12819.9	12879.6
5°	11041.0	11320.0	11326.7	11208.6	11310.7
7.5°	8207.3	8423.1	8460.9	8345.0	8421.9
10°	5947.4	6140.3	6123.0	6100.1	6154.1
12.5°	4442.7	4540.3	4530.0	4555.3	4558.7
15°	3243.4	3320.3	3336.4	3329.5	3353.6
17.5°	2388.4	2429.7	2421.7	2434.4	2443.4
20°	1778.9	1844.3	1829.5	1840.9	1852.4
22.5°	1179.8	1300.3	1285.4	1303.7	1293.5
25°	516.4	747.2	761.0	754.0	514.2
27.5°	158.4	267.4	343.2	261.7	158.4
30°	93.0	111.3	133.1	109.1	93.0
32.5°	58.6	70.0	83.8	68.9	57.3
35°	37.8	45.9	58.6	45.9	39.0
37.5°	25.3	31.0	41.3	31.0	26.5
40°	17.2	20.7	28.7	21.8	17.2
42.5°	12.7	14.9	19.5	14.9	11.5
45°	10.4	10.4	13.8	10.4	8.0
47.5°	8.0	8.0	9.2	6.9	5.7
50°	5.7	5.7	6.9	4.6	3.4
52.5°	3.4	4.6	4.6	3.4	2.3
55°	3.4	3.4	3.4	2.3	2.3
57.5°	2.3	2.3	2.3	1.1	1.1
60°	2.3	2.3	1.1	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°	0.0	1.1	1.1	0.0	0.0
72.5°	0.0	1.1	0.0	0.0	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)