

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: P1212335

Luminaire Tested: **LDSQA4A30940D010TE LAR25NF 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: P1212335
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26785)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDSQA4A30940D010TE LAR25NF 4LSQA1H
Description: PORTFOLIO 4" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,
SELF-FLANGED, 25° NARROW FLOOD
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

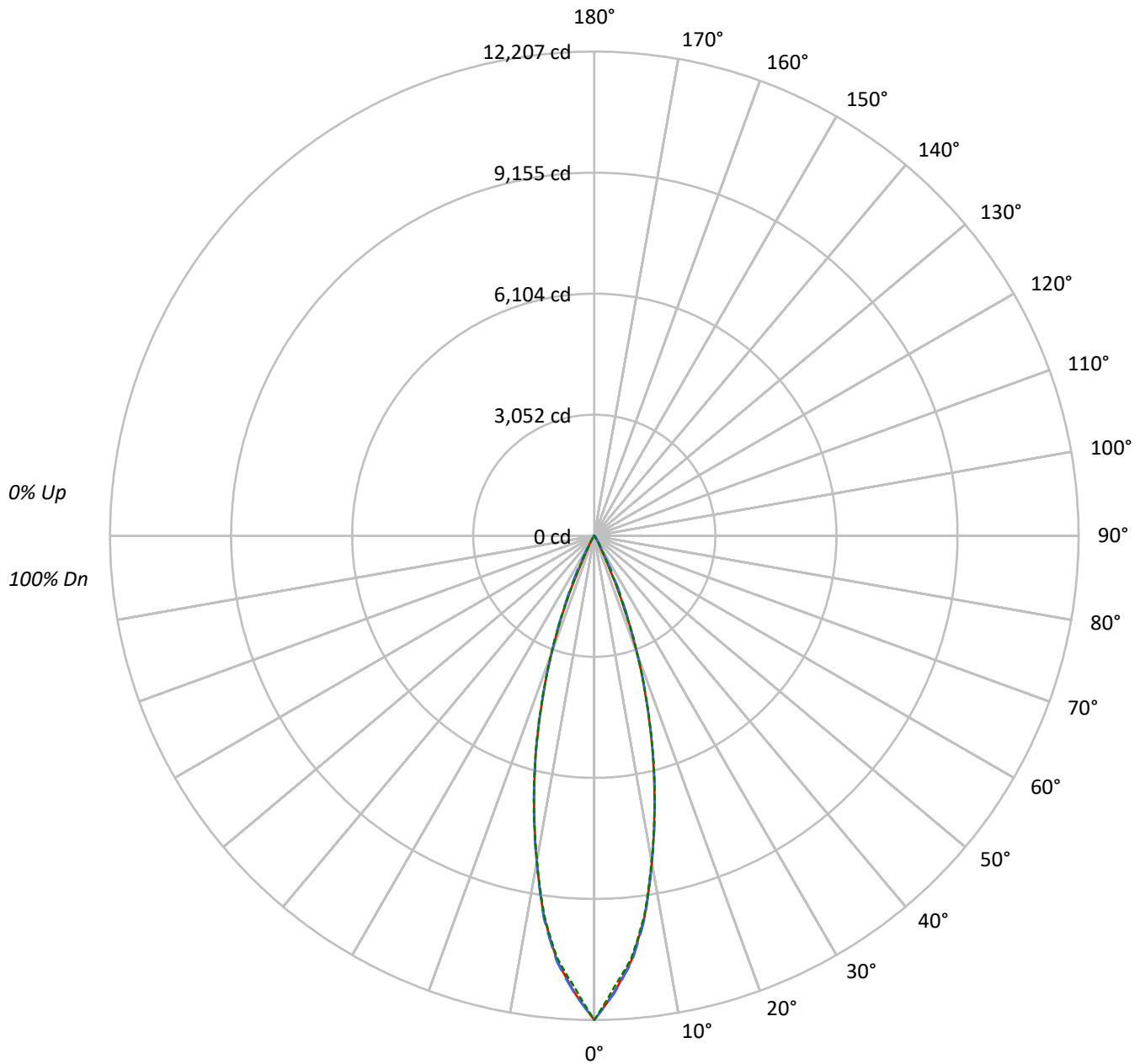
Lumens per Lamp: N/A
Luminaire Lumens: 3165.1 lumens
Efficiency: N/A
Efficacy: 79.5 lumens/watt
Spacing Criteria (0/90/45): 0.47 / 0.47 / 0.49
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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: P1212335

CATALOG NUMBER: LDSQA4A30940D010TE LAR25NF 4LSQA1H

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P1212335

CATALOG NUMBER: LDSQA4A30940D010TE LAR25NF 4LSQA1H

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	109	113	111	109	107	107	105	104	103	102	101	100	99	98	97		
2	111	108	105	102	109	106	103	101	103	101	99	100	98	97	97	96	95	93		
3	108	103	99	96	106	102	98	96	99	96	94	97	95	93	95	93	91	90		
4	104	99	95	92	103	98	94	91	96	93	90	94	91	89	92	90	88	87		
5	101	95	91	88	100	94	90	88	93	89	87	91	88	86	90	87	85	84		
6	98	92	88	84	97	91	87	84	90	86	84	88	85	83	87	85	83	82		
7	95	89	84	81	94	88	84	81	87	83	81	86	83	80	85	82	80	79		
8	92	86	82	79	91	85	81	79	84	81	78	84	80	78	83	80	78	77		
9	90	83	79	76	89	83	79	76	82	78	76	81	78	76	80	78	75	74		
10	87	81	77	74	87	80	76	74	80	76	74	79	76	73	78	75	73	72		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1182520	1182520	1182520
5°	1045282	1048861	1039982
10°	821566	822500	819028
15°	571910	573555	573966
20°	324433	326546	327680
25°	87447	132341	98382
30°	21668	29588	22272
35°	6457	13553	6930
40°	2592	4489	2592
45°	1302	1877	1110
50°	814	814	407
55°	692	456	236
60°	523	271	271
65°	321	321	321
70°	397	397	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



TEST NUMBER: P1212335

CATALOG NUMBER: LDSQA4A30940D010TE LAR25NF 4LSQA1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	957.6	30.3
10°-20°	1557.3	49.2
20°-30°	578.8	18.3
30°-40°	57.5	1.8
40°-50°	9.6	0.3
50°-60°	2.6	0.1
60°-70°	1.4	0.0
70°-80°	0.3	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°	3093.8	97.7
0°-40°	3151.2	99.6
0°-60°	3163.5	99.9
0°-90°	3165.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3165.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12207	12207	12207	12207	12207	
5°	10749	10857	10786	10912	10694	952
15°	5702	5766	5719	5813	5723	1543
25°	818	1201	1238	1156	920	511
35°	55	68	115	71	59	44
45°	10	11	14	11	8	8
55°	4	3	3	3	1	3
65°	1	1	1	1	1	2
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: P1212335

CATALOG NUMBER: LDSQA4A30940D010TE LAR25NF 4LSQA1H

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12206.6	12206.6	12206.6	12206.6	12206.6
2.5°	11519.3	11580.7	11542.5	11644.8	11398.0
5°	10748.9	10856.7	10785.7	10912.5	10694.4
7.5°	9690.9	9802.6	9730.3	9853.0	9658.1
10°	8351.8	8435.0	8361.3	8480.0	8326.0
12.5°	7012.8	7095.9	7041.5	7150.5	7027.8
15°	5702.4	5766.5	5718.8	5812.8	5722.9
17.5°	4371.6	4433.0	4389.3	4465.6	4397.5
20°	3147.0	3200.3	3167.5	3231.7	3178.5
22.5°	1954.0	2095.8	2119.0	2124.4	1970.4
25°	818.1	1201.3	1238.1	1156.3	920.4
27.5°	336.9	441.8	589.1	465.0	354.5
30°	193.7	225.0	264.5	231.8	199.1
32.5°	96.8	125.4	173.1	132.2	102.3
35°	54.6	68.1	114.6	70.9	58.6
37.5°	32.8	39.6	57.3	40.9	34.1
40°	20.5	24.5	35.5	25.9	20.5
42.5°	13.7	16.4	21.8	16.4	13.7
45°	9.5	11.0	13.7	11.0	8.1
47.5°	6.8	6.8	8.1	6.8	5.4
50°	5.4	5.4	5.4	4.1	2.7
52.5°	4.1	4.1	4.1	2.7	2.7
55°	4.1	2.7	2.7	2.7	1.4
57.5°	2.7	2.7	2.7	1.4	1.4
60°	2.7	2.7	1.4	1.4	1.4
62.5°	1.4	1.4	1.4	1.4	1.4
65°	1.4	1.4	1.4	1.4	1.4
67.5°	1.4	1.4	1.4	1.4	1.4
70°	1.4	1.4	1.4	1.4	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	1.4	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)