

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: P182581

Luminaire Tested: **LDSQA4A18940D010TE LAR35FL 4LSQAL1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P182581
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26798)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDSQA4A18940D010TE LAR35FL 4LSQAL1H
Description: PORTFOLIO 4" SQUARE LENSED ADJUSTABLE, SELF-FLANGED, 35° FLOOD
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1924.3 lumens
Efficiency: N/A
Efficacy: 66.1 lumens/watt
Spacing Criteria (0/90/45): 0.63 / 0.63 / 0.57
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

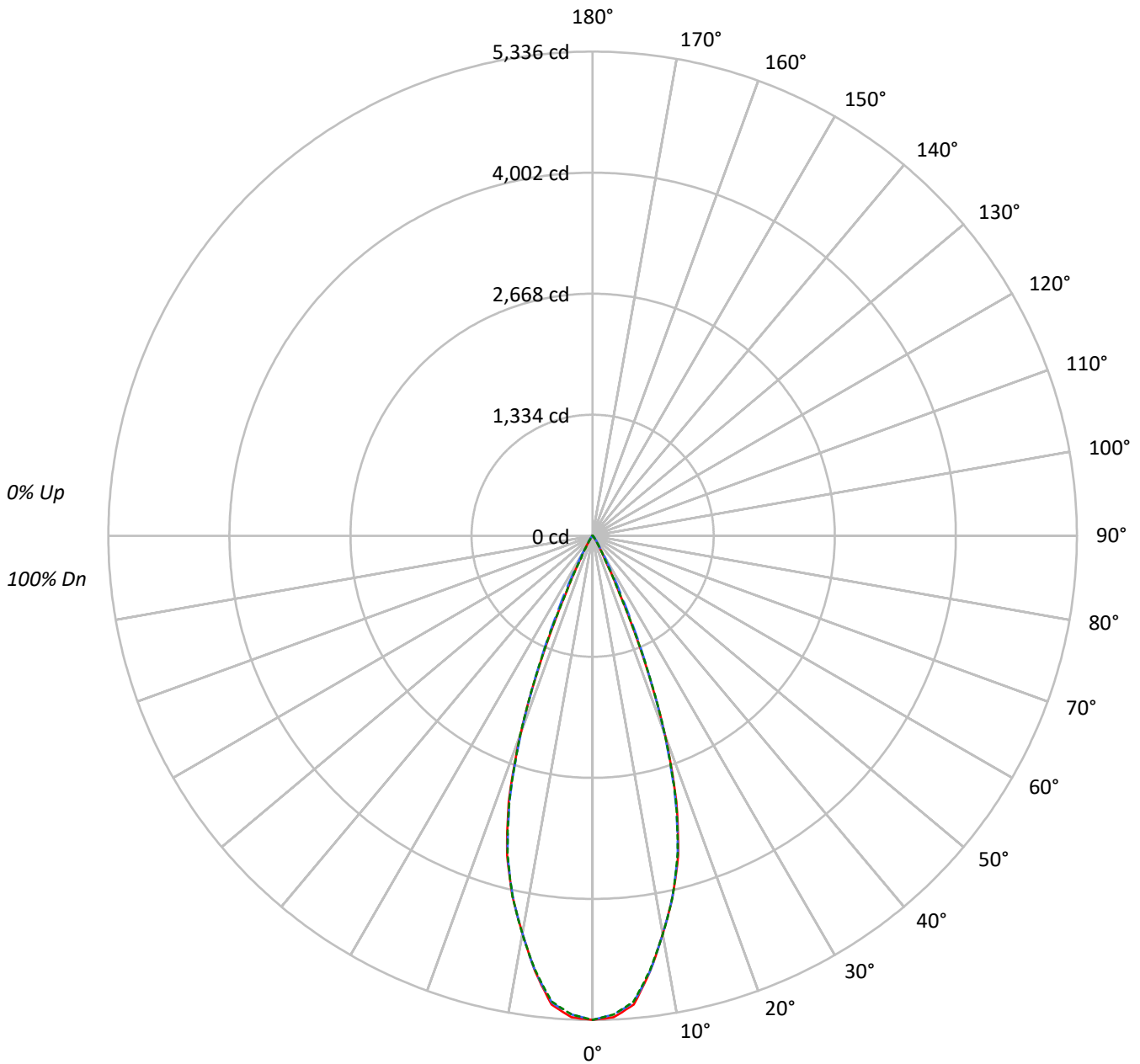
Input Watts (W): 29.12
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P182581

CATALOG NUMBER: LDSQA4A18940D010TE LAR35FL 4LSQAL1H

Luminous Intensity Polar Plot





TEST NUMBER: P182581

CATALOG NUMBER: LDSQA4A18940D010TE LAR35FL 4LSQAL1H

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20																		
RC	80									70									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	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	102	102	102	100																												
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96																												
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92																												
3	107	102	98	95	105	101	97	94	98	95	93	96	94	92	94	92	90	89																												
4	103	98	93	90	102	97	93	90	95	91	89	93	90	88	91	89	87	86																												
5	100	94	89	86	98	93	89	86	91	88	85	90	87	84	88	86	84	82																												
6	97	90	86	82	95	89	85	82	88	84	82	87	83	81	85	83	81	79																												
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77																												
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74																												
9	88	81	76	73	87	80	76	73	79	76	73	79	75	73	78	75	73	72																												
10	85	78	74	71	84	78	73	71	77	73	71	76	73	70	76	72	70	69																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	516879	516879	516879
5°	504373	502137	501203
10°	437992	437913	438435
15°	365347	363401	363220
20°	239639	237732	239824
25°	73273	92685	72995
30°	18334	22182	17943
35°	5937	9165	5830
40°	2782	4350	2453
45°	1452	1808	1082
50°	799	934	527
55°	439	591	304
60°	349	349	349
65°	206	206	206
70°	255	255	255
75°	0	337	0
80°	0	0	0
85°	0	0	0



TEST NUMBER: P182581

CATALOG NUMBER: LDSQA4A18940D010TE LAR35FL 4LSQAL1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	468.7	24.4
10°-20°	971.2	50.5
20°-30°	424.1	22.0
30°-40°	46.3	2.4
40°-50°	9.6	0.5
50°-60°	2.6	0.1
60°-70°	1.1	0.1
70°-80°	0.7	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°	1864.1	96.9
0°-40°	1910.4	99.3
0°-60°	1922.6	99.9
0°-90°	1924.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1924.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5336	5336	5336	5336	5336	
5°	5187	5172	5164	5177	5154	469
15°	3643	3627	3623	3629	3622	974
25°	686	845	867	853	683	397
35°	50	60	78	59	49	40
45°	11	12	13	10	8	9
55°	3	3	4	2	2	3
65°	1	1	1	1	1	1
75°	0	1	1	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



TEST NUMBER: P182581

CATALOG NUMBER: LDSQA4A18940D010TE LAR35FL 4LSQAL1H

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5335.5	5335.5	5335.5	5335.5	5335.5
2.5°	5311.7	5292.3	5281.7	5304.6	5281.7
5°	5186.6	5172.5	5163.6	5176.9	5154.0
7.5°	4843.8	4829.7	4842.0	4842.0	4830.6
10°	4452.5	4444.6	4451.7	4470.2	4457.0
12.5°	4072.8	4066.6	4069.2	4088.6	4073.6
15°	3642.8	3626.9	3623.4	3628.7	3621.6
17.5°	3070.0	3046.2	3031.2	3043.6	3047.1
20°	2324.5	2324.5	2306.0	2316.6	2326.3
22.5°	1486.5	1520.9	1524.4	1522.7	1516.5
25°	685.5	845.0	867.1	853.0	682.9
27.5°	277.6	342.8	426.5	353.3	267.9
30°	163.9	172.7	198.3	170.1	160.4
32.5°	86.4	104.0	121.6	103.1	83.7
35°	50.2	59.9	77.5	59.0	49.3
37.5°	32.6	37.9	52.0	37.9	30.8
40°	22.0	24.7	34.4	23.8	19.4
42.5°	15.0	16.7	22.0	15.0	12.3
45°	10.6	11.5	13.2	9.7	7.9
47.5°	7.0	7.9	8.8	6.2	5.3
50°	5.3	5.3	6.2	4.4	3.5
52.5°	3.5	4.4	4.4	2.6	2.6
55°	2.6	2.6	3.5	1.8	1.8
57.5°	2.6	2.6	2.6	1.8	1.8
60°	1.8	1.8	1.8	1.8	1.8
62.5°	0.9	1.8	1.8	0.9	0.9
65°	0.9	0.9	0.9	0.9	0.9
67.5°	0.9	0.9	0.9	0.9	0.9
70°	0.9	0.9	0.9	0.9	0.9
72.5°	0.9	0.9	0.9	0.9	0.9
75°	0.0	0.9	0.9	0.0	0.0
77.5°	0.0	0.9	0.9	0.9	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



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)