

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: P182452

Luminaire Tested: **LDSQA4A18935D010TE LAR25NF 4LSQA1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P182452
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: LDSQA4A18935D010TE LAR25NF 4LSQA1H
Description: PORTFOLIO 4" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,
SELF-FLANGED, 25° NARROW FLOOD
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1894.0 lumens
Efficiency: N/A
Efficacy: 65.0 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

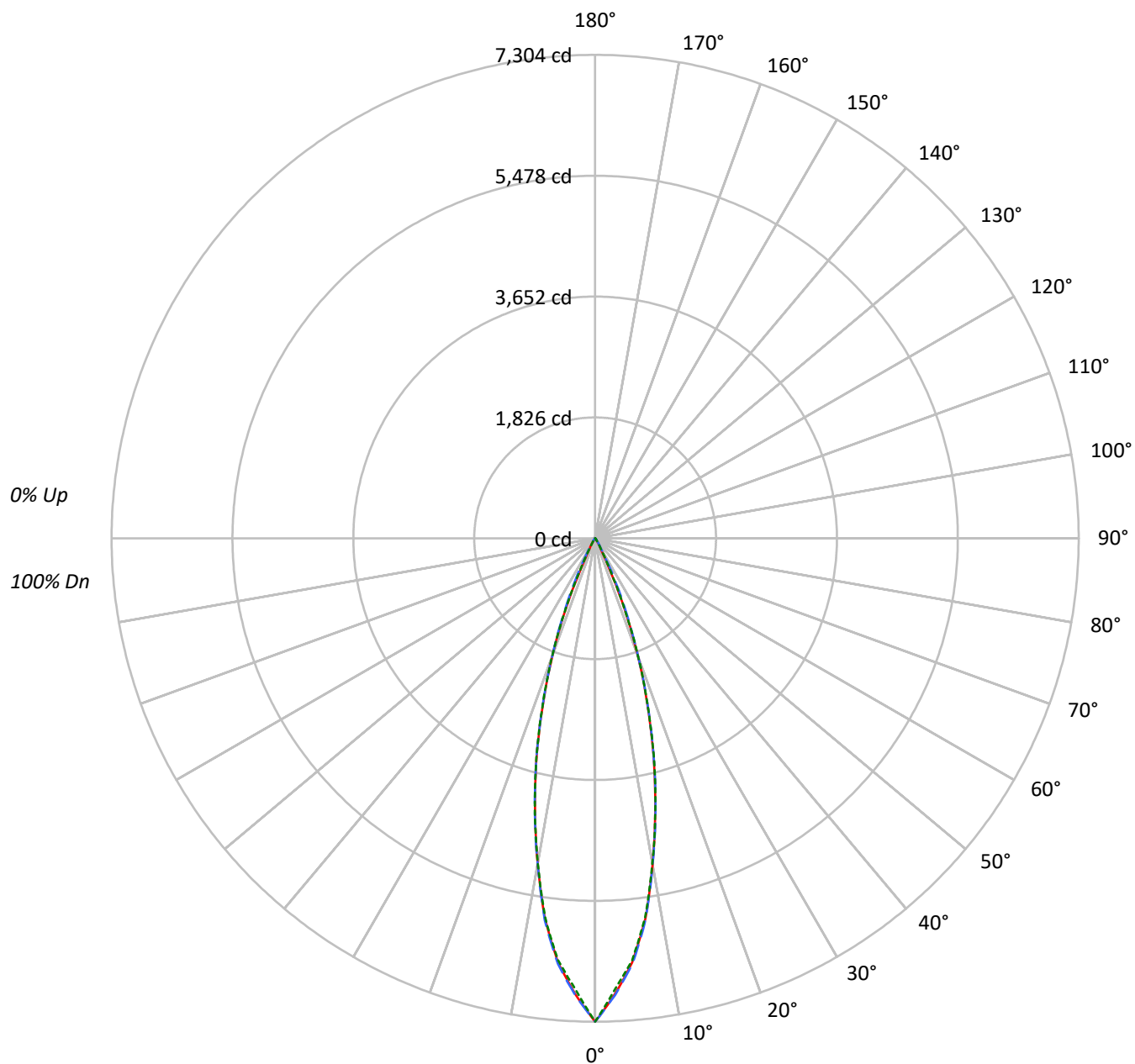
Input Watts (W): 29.12
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P182452

CATALOG NUMBER: LDSQA4A18935D010TE LAR25NF 4LSQA1H

Luminous Intensity Polar Plot





TEST NUMBER: P182452

CATALOG NUMBER: LDSQA4A18935D010TE 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
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	107	107	105	104		103	102	101		100
2	111	108	105	102	109	106	103	101	103	101	99		100	98	97		97
3	108	103	99	96	106	102	98	96	99	96	94		97	95	93		95
4	104	99	95	92	103	98	94	91	96	93	90		94	91	89		92
5	101	95	91	88	100	94	90	88	93	89	87		91	88	86		90
6	98	92	88	84	97	91	87	84	90	86	84		88	85	83		87
7	95	89	84	81	94	88	84	81	87	83	81		86	83	80		85
8	92	86	82	79	91	85	81	79	84	81	78		84	80	78		83
9	90	83	79	76	89	83	79	76	82	78	76		81	78	76		80
10	87	81	77	74	87	80	76	74	80	76	74		79	76	73		78

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	707617	707617	707617
5°	625502	627642	622332
10°	491623	492184	490098
15°	342229	343212	343463
20°	194144	195412	196082
25°	52333	79195	58875
30°	12965	17708	13323
35°	3855	8101	4151
40°	1543	2681	1543
45°	781	1123	671
50°	497	497	241
55°	405	270	135
60°	310	155	155
65°	183	183	183
70°	227	227	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



TEST NUMBER: P182452

CATALOG NUMBER: LDSQA4A18935D010TE LAR25NF 4LSQA1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	573.1	30.3
10°-20°	931.9	49.2
20°-30°	346.4	18.3
30°-40°	34.4	1.8
40°-50°	5.8	0.3
50°-60°	1.6	0.1
60°-70°	0.8	0.0
70°-80°	0.1	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°	1851.3	97.7
0°-40°	1885.7	99.6
0°-60°	1893.0	99.9
0°-90°	1894.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1894.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7304	7304	7304	7304	7304	
5°	6432	6497	6454	6530	6400	570
15°	3412	3451	3422	3478	3425	923
25°	490	719	741	692	551	306
35°	33	41	68	42	35	26
45°	6	6	8	6	5	5
55°	2	2	2	2	1	2
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



TEST NUMBER: P182452

CATALOG NUMBER: LDSQA4A18935D010TE LAR25NF 4LSQA1H

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7304.4	7304.4	7304.4	7304.4	7304.4
2.5°	6893.2	6929.9	6907.1	6968.3	6820.6
5°	6432.2	6496.7	6454.2	6530.1	6399.6
7.5°	5799.0	5865.9	5822.7	5896.1	5779.4
10°	4997.7	5047.5	5003.4	5074.4	4982.2
12.5°	4196.5	4246.2	4213.6	4278.9	4205.4
15°	3412.3	3450.7	3422.1	3478.4	3424.6
17.5°	2616.0	2652.7	2626.6	2672.3	2631.5
20°	1883.2	1915.1	1895.5	1933.8	1902.0
22.5°	1169.3	1254.1	1268.0	1271.3	1179.1
25°	489.6	718.9	740.9	691.9	550.8
27.5°	201.5	264.4	352.5	278.2	212.1
30°	115.9	134.6	158.3	138.7	119.1
32.5°	57.9	75.1	103.6	79.1	61.2
35°	32.6	40.8	68.5	42.4	35.1
37.5°	19.6	23.7	34.3	24.5	20.4
40°	12.2	14.7	21.2	15.5	12.2
42.5°	8.2	9.8	13.1	9.8	8.2
45°	5.7	6.5	8.2	6.5	4.9
47.5°	4.1	4.1	4.9	4.1	3.3
50°	3.3	3.3	3.3	2.4	1.6
52.5°	2.4	2.4	2.4	1.6	1.6
55°	2.4	1.6	1.6	1.6	0.8
57.5°	1.6	1.6	1.6	0.8	0.8
60°	1.6	1.6	0.8	0.8	0.8
62.5°	0.8	0.8	0.8	0.8	0.8
65°	0.8	0.8	0.8	0.8	0.8
67.5°	0.8	0.8	0.8	0.8	0.8
70°	0.8	0.8	0.8	0.8	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.8	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



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)