

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: P182507

Luminaire Tested: **LDSQA4A28930D010TE LAR35FL 4LSQA1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P182507
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26795)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDSQA4A28930D010TE LAR35FL 4LSQA1H
Description: PORTFOLIO 4" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,
SELF-FLANGED, 35° FLOOD
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2603.8 lumens
Efficiency: N/A
Efficacy: 58.5 lumens/watt
Spacing Criteria (0/90/45): 0.62 / 0.63 / 0.57
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

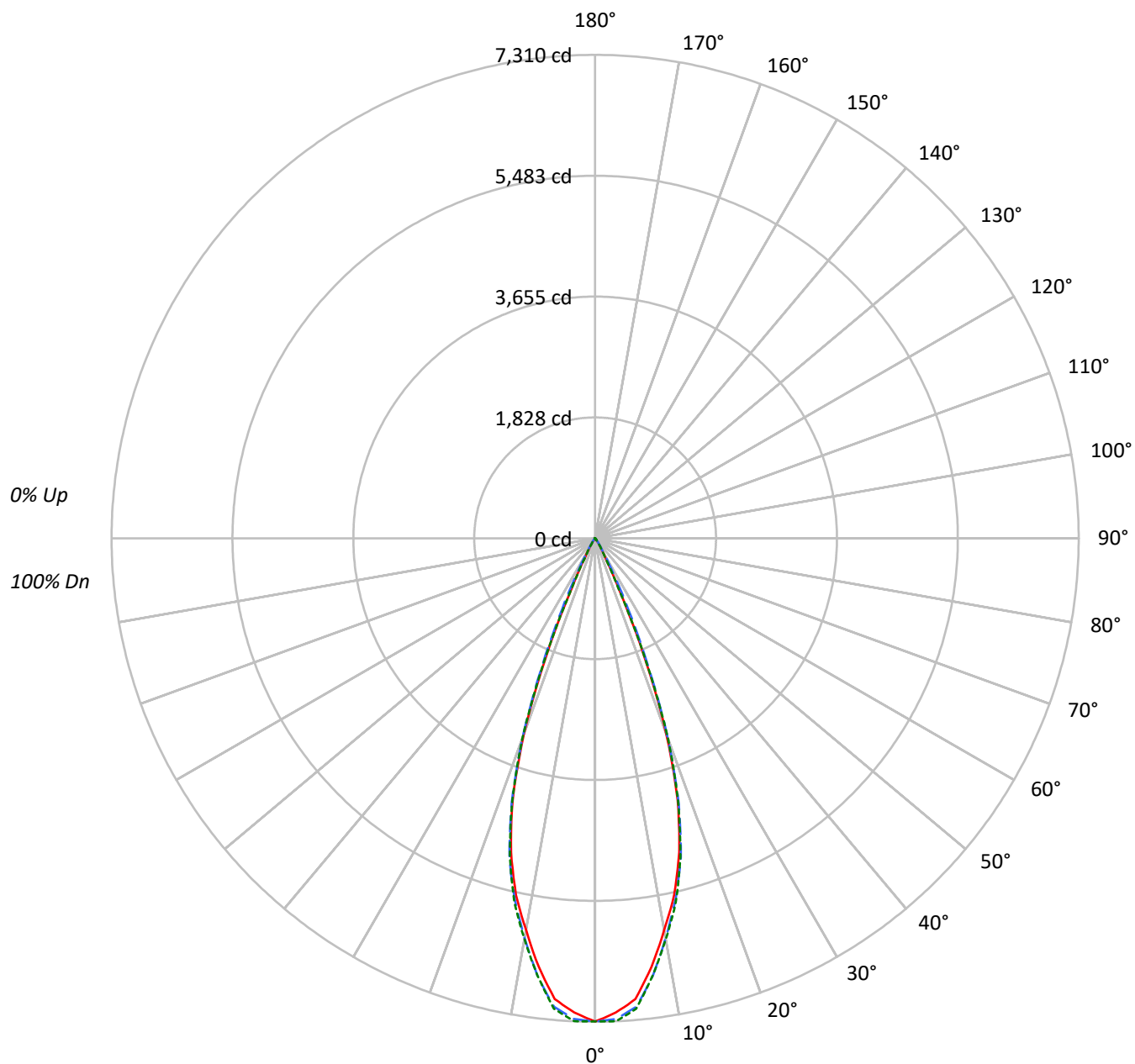
Input Watts (W): 44.49
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P182507

CATALOG NUMBER: LDSQA4A28930D010TE LAR35FL 4LSQA1H

Luminous Intensity Polar Plot





TEST NUMBER: P182507

CATALOG NUMBER: LDSQA4A28930D010TE LAR35FL 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	112	110	109	107		107	105	104			103	102	101			99
2	111	107	104	101	109	105	103	100		102	100	98			99	98	96			97
3	107	102	98	95	105	101	97	95		98	96	93			96	94	92			94
4	103	98	94	91	102	97	93	90		95	92	89			93	90	88			91
5	100	94	90	86	99	93	89	86		91	88	85			90	87	85			88
6	97	90	86	83	96	90	85	82		88	85	82			87	84	81			86
7	94	87	83	79	93	86	82	79		85	82	79			84	81	79			83
8	91	84	80	77	90	83	79	76		82	79	76			82	78	76			81
9	88	81	77	74	87	81	77	74		80	76	73			79	76	73			78
10	86	78	74	71	85	78	74	71		77	74	71			77	73	71			76

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	707908	707908	707908
5°	680252	691658	694459
10°	591528	603617	605358
15°	492729	501946	499729
20°	323773	331072	331536
25°	89809	126259	88388
30°	21545	27361	21914
35°	5759	9946	5629
40°	2099	3781	1960
45°	1055	1370	904
50°	663	663	497
55°	372	372	186
60°	426	213	213
65°	252	252	252
70°	312	312	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



TEST NUMBER: P182507

CATALOG NUMBER: LDSQA4A28930D010TE LAR35FL 4LSQA1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	642.2	24.7
10°-20°	1331.5	51.1
20°-30°	568.7	21.8
30°-40°	50.2	1.9
40°-50°	7.5	0.3
50°-60°	2.1	0.1
60°-70°	1.1	0.0
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°	2542.4	97.6
0°-40°	2592.6	99.6
0°-60°	2602.2	99.9
0°-90°	2603.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2603.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7307	7307	7307	7307	7307	
5°	6995	7053	7112	7102	7141	634
15°	4913	4960	5005	4968	4983	1317
25°	840	1145	1181	1130	827	515
35°	49	61	84	60	48	41
45°	8	8	10	8	7	7
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	



TEST NUMBER: P182507

CATALOG NUMBER: LDSQA4A28930D010TE LAR35FL 4LSQA1H

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7307.4	7307.4	7307.4	7307.4	7307.4
2.5°	7179.0	7229.9	7275.3	7271.9	7309.6
5°	6995.2	7052.8	7112.5	7101.5	7141.3
7.5°	6536.9	6595.6	6673.1	6643.2	6669.7
10°	6013.3	6075.3	6136.2	6117.3	6153.9
12.5°	5522.9	5558.3	5602.6	5599.3	5638.0
15°	4912.9	4960.5	5004.8	4968.3	4982.7
17.5°	4149.1	4167.9	4201.1	4164.6	4174.5
20°	3140.6	3192.6	3211.4	3169.4	3215.9
22.5°	1964.9	2090.0	2100.0	2077.9	2008.1
25°	840.2	1144.6	1181.2	1130.3	826.9
27.5°	339.9	433.9	562.4	425.1	331.0
30°	192.6	209.2	244.6	205.9	195.9
32.5°	91.9	117.3	140.6	114.0	93.0
35°	48.7	60.9	84.1	59.8	47.6
37.5°	27.7	35.4	50.9	33.2	27.7
40°	16.6	21.0	29.9	19.9	15.5
42.5°	11.1	13.3	16.6	12.2	10.0
45°	7.7	7.7	10.0	7.7	6.6
47.5°	5.5	5.5	6.6	4.4	4.4
50°	4.4	4.4	4.4	3.3	3.3
52.5°	3.3	3.3	3.3	2.2	2.2
55°	2.2	2.2	2.2	2.2	1.1
57.5°	2.2	2.2	2.2	1.1	1.1
60°	2.2	2.2	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°	1.1	1.1	1.1	1.1	0.0
72.5°	1.1	1.1	1.1	1.1	1.1
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



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)