

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: P208793

Luminaire Tested: **LDSQA6A15930D010TE LAR35FL 6LSQA1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P208793
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29057)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDSQA6A15930D010TE LAR35FL 6LSQA1H
Description: PORTFOLIO 6" 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: 1562.8 lumens
Efficiency: N/A
Efficacy: 71.7 lumens/watt
Spacing Criteria (0/90/45): 0.6 / 0.59 / 0.55
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

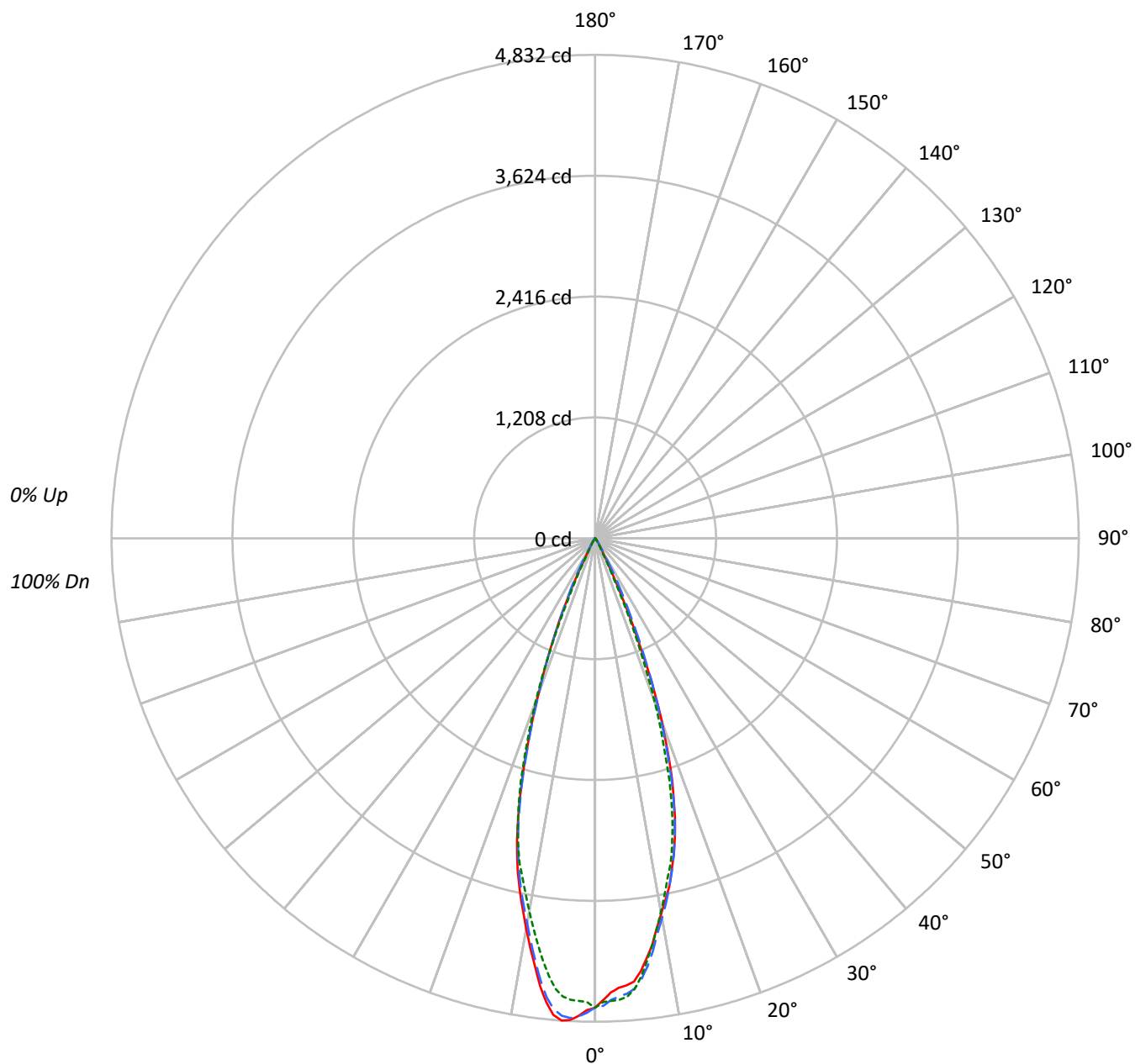
Input Watts (W): 21.79
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P208793

CATALOG NUMBER: LDSQA6A15930D010TE LAR35FL 6LSQA1H

Luminous Intensity Polar Plot





TEST NUMBER: P208793

CATALOG NUMBER: LDSQA6A15930D010TE LAR35FL 6LSQA1H

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	202030	202030	202030
5°	192191	195528	206679
10°	166516	165615	173306
15°	137499	133184	133741
20°	89429	79674	75940
25°	26875	20547	27354
30°	5862	4266	4529
35°	2092	1288	1409
40°	618	405	483
45°	177	116	146
50°	33	33	67
55°	38	0	75
60°	43	0	0
65°	51	0	0
70°	63	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



TEST NUMBER: P208793

CATALOG NUMBER: LDSQA6A15930D010TE LAR35FL 6LSQA1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	413.3	26.4
10°-20°	802.3	51.3
20°-30°	317.0	20.3
30°-40°	26.1	1.7
40°-50°	3.6	0.2
50°-60°	0.4	0.0
60°-70°	0.1	0.0
70°-80°	0.0	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°	1532.6	98.1
0°-40°	1558.7	99.7
0°-60°	1562.7	100.0
0°-90°	1562.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1562.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4692	4692	4692	4692	4692	
5°	4447	4518	4524	4727	4782	402
15°	3085	3077	2988	2963	3000	824
25°	566	765	432	634	576	318
35°	40	40	24	34	27	30
45°	3	7	2	5	2	3
55°	0	0	0	0	1	0
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P208793

CATALOG NUMBER: LDSQA6A15930D010TE LAR35FL 6LSQA1H

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	4692.3	4692.3	4692.3	4692.3	4692.3	4692.3	4692.3	4692.3	4692.3
1°	4616.6	4563.8	4674.1	4669.8	4635.3	4732.6	4742.6	4805.5	4716.3
2°	4542.2	4500.5	4616.6	4628.5	4628.5	4749.8	4781.5	4860.1	4778.1
3°	4499.1	4464.6	4585.4	4617.0	4620.4	4755.6	4802.1	4890.3	4823.2
4°	4480.4	4448.7	4563.3	4587.8	4592.6	4735.5	4784.4	4885.0	4832.3
5°	4446.8	4411.4	4517.8	4521.6	4524.0	4670.3	4727.3	4827.0	4782.0
6°	4351.9	4333.2	4430.5	4409.4	4402.7	4559.0	4617.0	4710.0	4664.5
7°	4227.7	4215.3	4306.8	4274.7	4257.9	4403.7	4457.4	4545.6	4509.6
8°	4100.7	4070.5	4157.7	4129.9	4101.6	4227.2	4274.2	4355.7	4322.2
9°	3942.0	3926.6	3991.4	3982.3	3943.9	4072.9	4090.1	4169.7	4142.4
10°	3808.7	3790.0	3855.2	3837.9	3788.1	3900.7	3912.7	3989.0	3964.0
11°	3679.2	3654.8	3710.4	3688.4	3632.3	3733.4	3741.6	3812.5	3787.1
12°	3560.3	3520.5	3564.2	3537.8	3478.4	3567.5	3571.4	3638.0	3614.5
13°	3403.1	3376.7	3411.2	3382.9	3345.1	3395.4	3387.7	3451.0	3429.5
14°	3251.6	3218.5	3250.1	3216.1	3176.3	3209.9	3187.8	3242.9	3226.2
15°	3084.7	3051.7	3076.6	3034.9	2987.9	3000.4	2963.4	3014.7	3000.4
16°	2890.6	2857.5	2879.1	2828.2	2772.6	2765.4	2716.5	2761.6	2746.7
17°	2671.5	2647.5	2662.3	2598.6	2540.1	2515.2	2450.4	2490.2	2475.4
18°	2462.9	2415.9	2422.1	2351.2	2262.0	2246.7	2173.8	2211.7	2196.8
19°	2189.6	2167.6	2170.9	2090.8	2000.7	1972.4	1900.0	1933.6	1916.8
20°	1951.8	1918.2	1915.4	1828.6	1738.9	1709.2	1639.2	1673.7	1657.4
21°	1680.0	1700.6	1664.6	1573.1	1462.3	1465.2	1403.3	1406.7	1417.7
22°	1374.1	1449.4	1418.7	1310.3	1171.8	1235.5	1179.9	1183.7	1193.3
23°	1071.6	1149.7	1177.5	1046.1	895.6	1022.7	978.5	981.4	987.7
24°	795.4	905.7	955.5	805.0	644.9	822.7	797.8	801.1	794.4
25°	565.7	695.2	764.7	594.5	432.5	639.1	633.8	639.1	575.8
26°	382.1	524.0	603.1	417.1	267.5	472.3	504.4	492.9	373.5
27°	244.5	398.4	463.6	272.8	169.7	325.1	376.4	373.0	214.3
28°	172.1	276.6	342.3	167.8	130.9	204.2	269.0	245.5	137.1
29°	145.3	179.8	238.8	119.4	106.4	120.8	180.3	143.4	112.2
30°	117.9	119.4	156.8	96.4	85.8	86.3	115.1	94.0	91.1
32.5°	71.9	71.4	67.6	56.6	50.3	50.3	56.1	54.2	53.7
35°	39.8	43.6	40.3	34.0	24.5	30.2	34.0	32.1	26.8
37.5°	21.6	25.4	27.8	18.7	13.4	17.7	23.0	18.7	15.3
40°	11.0	13.9	19.7	10.5	7.2	10.1	15.8	10.5	8.6
42.5°	5.8	7.7	12.5	5.8	3.4	5.8	10.1	5.8	4.3
45°	2.9	3.8	6.7	2.9	1.9	2.9	5.3	3.4	2.4
47.5°	1.4	1.9	3.4	1.4	0.5	1.4	2.9	1.4	1.4
50°	0.5	1.0	1.9	0.5	0.5	0.5	1.4	1.0	1.0
52.5°	0.5	0.5	1.0	0.5	0.0	0.5	1.0	0.5	1.0
55°	0.5	0.5	0.5	0.0	0.0	0.5	0.5	0.5	1.0
57.5°	0.5	0.5	0.5	0.0	0.0	0.0	0.5	0.5	1.0
60°	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.5	0.0



TEST NUMBER: P208793

CATALOG NUMBER: LDSQA6A15930D010TE LAR35FL 6LSQA1H

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180° - - 45°-225° - - - 90°-270°







62.5°	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0



(END OF REPORT)