

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: P1219584

Luminaire Tested: **LDSQA6A10950D010TE LAR35FL 6LSQA1H**

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: P1219584
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: LDSQA6A10950D010TE LAR35FL 6LSQA1H
Description: PORTFOLIO 6" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,
SELF-FLANGED, 35° FLOOD
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

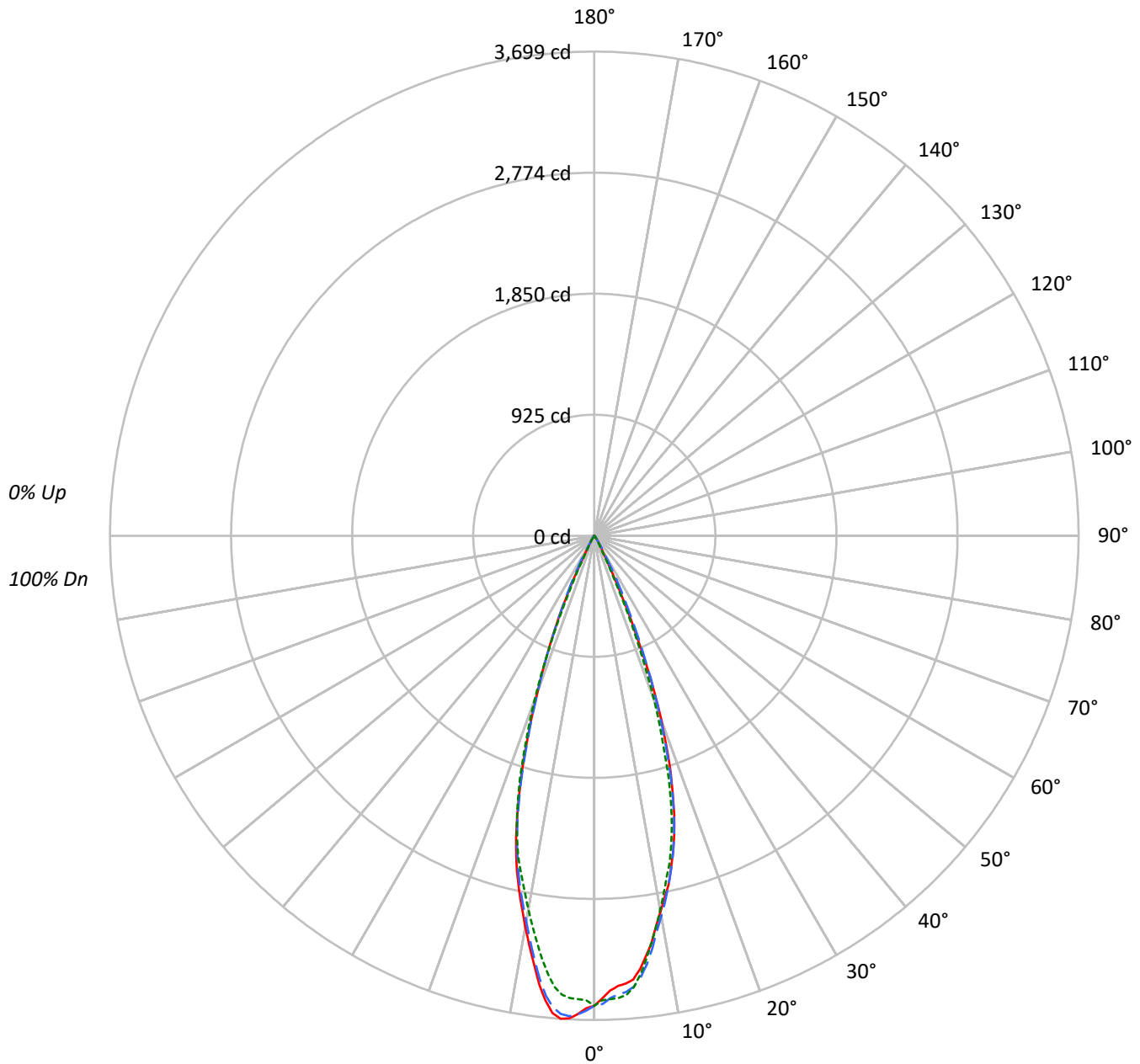
Lumens per Lamp: N/A
Luminaire Lumens: 1196.1 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Spacing Criteria (0/90/45): 0.6 / 0.59 / 0.55
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 12.4
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

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Luminous Intensity Polar Plot



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	154639	154639	154639
5°	147108	149663	158194
10°	127457	126766	132655
15°	105245	101946	102365
20°	68453	60990	58130
25°	20575	15725	20941
30°	4489	3261	3470
35°	1603	983	1083
40°	472	309	377
45°	134	91	110
50°	20	20	47
55°	23	0	53
60°	26	0	0
65°	31	0	0
70°	38	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.4	26.4
10°-20°	614.1	51.3
20°-30°	242.6	20.3
30°-40°	19.9	1.7
40°-50°	2.7	0.2
50°-60°	0.3	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°	1173.1	98.1
0°-40°	1193.1	99.7
0°-60°	1196.0	100.0
0°-90°	1196.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1196.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3592	3592	3592	3592	3592	
5°	3404	3458	3463	3618	3660	308
15°	2361	2355	2287	2268	2296	631
25°	433	585	331	485	441	243
35°	30	31	19	26	21	23
45°	2	5	2	4	2	2
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	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	3591.6	3591.6	3591.6	3591.6	3591.6	3591.6	3591.6	3591.6	3591.6
1°	3533.6	3493.3	3577.7	3574.4	3548.0	3622.4	3630.2	3678.2	3609.9
2°	3476.7	3444.8	3533.6	3542.8	3542.8	3635.6	3659.9	3720.1	3657.3
3°	3443.8	3417.2	3509.8	3533.9	3536.6	3640.1	3675.7	3743.2	3691.7
4°	3429.4	3405.2	3492.9	3511.6	3515.3	3624.6	3662.0	3739.1	3698.8
5°	3403.7	3376.5	3458.0	3460.9	3462.8	3574.7	3618.4	3694.7	3660.2
6°	3331.0	3316.8	3391.2	3375.0	3370.0	3489.5	3533.9	3605.2	3570.3
7°	3236.0	3226.4	3296.6	3272.0	3259.0	3370.7	3411.8	3479.3	3451.9
8°	3138.8	3115.6	3182.4	3161.2	3139.4	3235.6	3271.5	3333.9	3308.3
9°	3017.2	3005.5	3055.1	3048.1	3018.7	3117.5	3130.7	3191.7	3170.6
10°	2915.3	2901.0	2950.9	2937.7	2899.5	2985.7	2994.9	3053.2	3034.2
11°	2816.2	2797.4	2840.0	2823.2	2780.2	2857.6	2864.0	2918.2	2898.8
12°	2725.1	2694.7	2728.1	2708.0	2662.4	2730.7	2733.5	2784.6	2766.6
13°	2604.8	2584.6	2611.1	2589.4	2560.4	2598.9	2593.0	2641.5	2625.0
14°	2488.8	2463.6	2487.8	2461.7	2431.2	2456.9	2440.0	2482.2	2469.4
15°	2361.1	2335.7	2354.9	2322.9	2287.1	2296.5	2268.2	2307.6	2296.5
16°	2212.5	2187.1	2203.8	2164.8	2122.2	2116.8	2079.3	2113.8	2102.4
17°	2044.8	2026.4	2037.8	1989.0	1944.3	1925.1	1875.6	1906.0	1894.7
18°	1885.1	1849.2	1853.9	1799.6	1731.4	1719.6	1663.8	1692.8	1681.5
19°	1676.1	1659.1	1661.6	1600.4	1531.4	1509.8	1454.2	1480.0	1467.2
20°	1494.0	1468.3	1466.1	1399.6	1331.1	1308.3	1254.7	1281.1	1268.7
21°	1285.9	1301.7	1274.1	1204.1	1119.4	1121.5	1074.1	1076.6	1085.1
22°	1051.8	1109.4	1085.9	1002.9	896.9	945.7	903.1	906.0	913.4
23°	820.1	880.0	901.3	800.7	685.5	782.8	749.0	751.3	756.0
24°	608.8	693.3	731.4	616.2	493.6	629.7	610.6	613.2	608.1
25°	433.1	532.2	585.3	455.0	331.0	489.2	485.2	489.2	440.8
26°	292.4	401.1	461.7	319.3	204.7	361.4	386.0	377.3	285.9
27°	187.2	304.9	354.8	208.8	129.9	248.9	288.1	285.5	164.1
28°	131.8	211.7	262.0	128.4	100.3	156.3	205.9	187.9	104.9
29°	111.3	137.6	182.7	91.4	81.5	92.5	138.0	109.7	85.9
30°	90.3	91.4	119.9	73.7	65.6	66.0	88.0	72.0	69.8
32.5°	55.0	54.7	51.8	43.3	38.6	38.6	43.0	41.5	41.1
35°	30.5	33.4	30.8	26.0	18.7	23.1	26.0	24.5	20.6
37.5°	16.5	19.4	21.3	14.2	10.3	13.5	17.7	14.2	11.8
40°	8.4	10.6	15.0	8.1	5.5	7.7	12.1	8.1	6.7
42.5°	4.4	5.9	9.6	4.4	2.5	4.4	7.7	4.4	3.2
45°	2.2	2.9	5.1	2.2	1.5	2.2	4.0	2.5	1.8
47.5°	1.0	1.5	2.5	1.0	0.3	1.0	2.2	1.0	1.0
50°	0.3	0.7	1.5	0.3	0.3	0.3	1.0	0.7	0.7
52.5°	0.3	0.3	0.7	0.3	0.0	0.3	0.7	0.3	0.7
55°	0.3	0.3	0.3	0.0	0.0	0.3	0.3	0.3	0.7
57.5°	0.3	0.3	0.3	0.0	0.0	0.0	0.3	0.3	0.7
60°	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.3	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.3	0.3	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

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

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Scaled Data Report



— 0°-180° - - 45°-225° - - - 90°-270°

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Scaled Data Report



62.5°	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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