

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: P1212525

Luminaire Tested: **LDSQA6A35930D010TE 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: P1212525
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: LDSQA6A35930D010TE 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

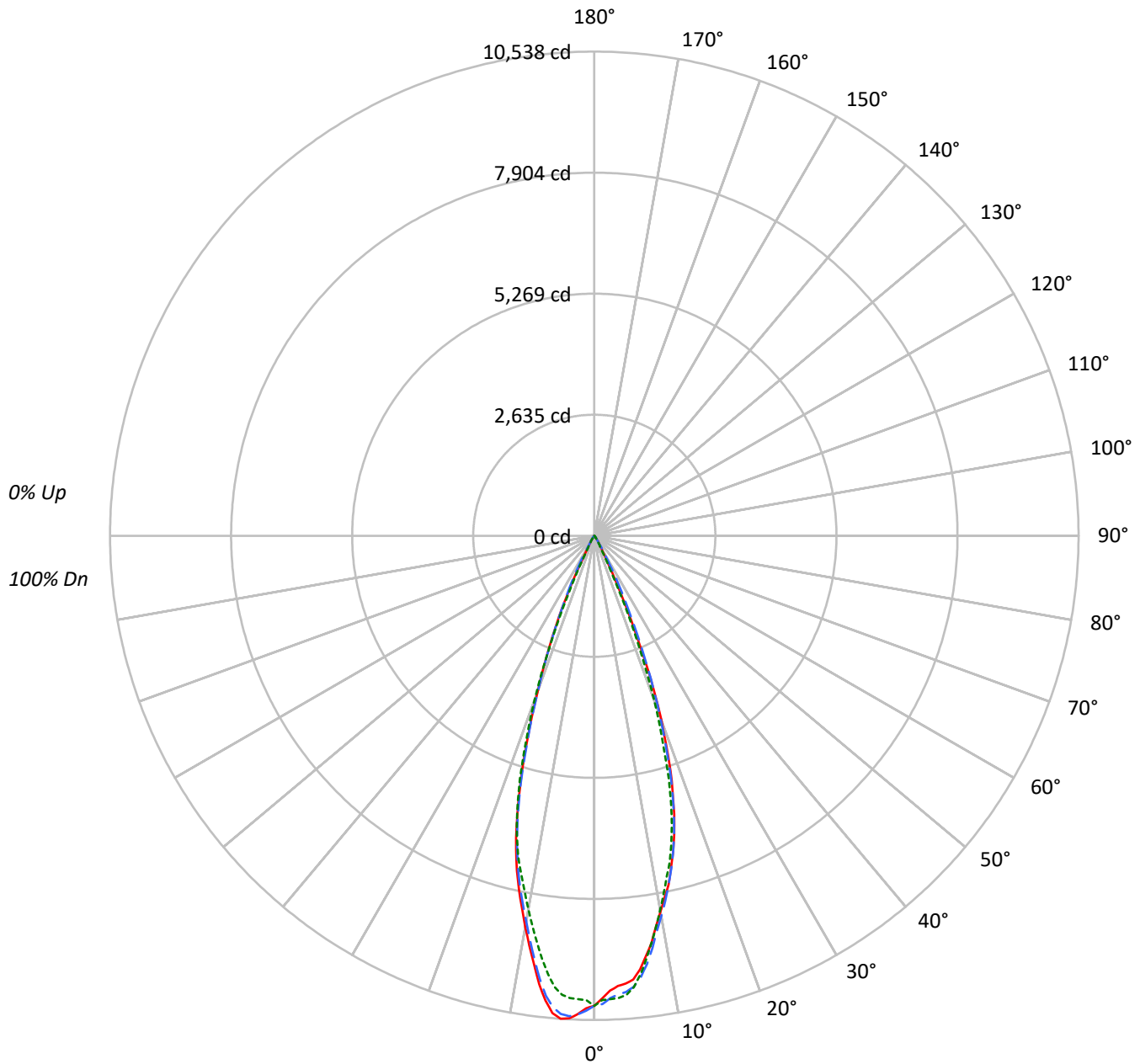
Lumens per Lamp: N/A
Luminaire Lumens: 3408.0 lumens
Efficiency: N/A
Efficacy: 71.4 lumens/watt
Spacing Criteria (0/90/45): 0.6 / 0.59 / 0.55
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 47.7
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	93	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°	440558	440558	440558
5°	419106	426380	450691
10°	363111	361144	377919
15°	299835	290425	291633
20°	195010	173750	165599
25°	58609	44799	59654
30°	12787	9307	9879
35°	4562	2802	3075
40°	1355	882	1062
45°	384	250	317
50°	74	74	147
55°	83	0	165
60°	95	0	0
65°	112	0	0
70°	138	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°	901.3	26.4
10°-20°	1749.5	51.3
20°-30°	691.3	20.3
30°-40°	56.8	1.7
40°-50°	7.8	0.2
50°-60°	0.9	0.0
60°-70°	0.2	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°	3342.1	98.1
0°-40°	3399.0	99.7
0°-60°	3407.7	100.0
0°-90°	3408.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3408.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	10232	10232	10232	10232	10232	
5°	9697	9852	9865	10309	10428	877
15°	6727	6709	6516	6462	6543	1798
25°	1234	1668	943	1382	1256	693
35°	87	88	53	74	58	65
45°	6	15	4	12	5	6
55°	1	1	0	1	2	1
65°	1	0	0	0	0	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	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°	10232.3	10232.3	10232.3	10232.3	10232.3	10232.3	10232.3	10232.3	10232.3
1°	10067.0	9952.0	10192.5	10183.1	10107.7	10319.9	10341.9	10478.9	10284.5
2°	9905.0	9814.0	10067.0	10093.1	10093.1	10357.7	10426.7	10598.0	10419.3
3°	9810.9	9735.7	9999.0	10068.1	10075.3	10370.2	10471.7	10663.9	10517.6
4°	9770.0	9701.1	9950.9	10004.2	10014.7	10326.2	10433.0	10652.6	10537.6
5°	9697.0	9619.6	9851.6	9860.0	9865.3	10184.0	10308.6	10526.0	10427.8
6°	9490.0	9449.1	9661.3	9615.4	9600.7	9941.6	10068.1	10270.8	10171.6
7°	9219.1	9191.9	9391.7	9321.7	9284.9	9602.8	9720.0	9912.2	9833.9
8°	8942.0	8876.2	9066.4	9005.8	8944.2	9218.2	9320.6	9498.2	9425.2
9°	8596.1	8562.6	8703.7	8683.9	8600.2	8881.4	8919.0	9092.7	9032.9
10°	8305.4	8264.5	8406.7	8369.1	8260.4	8506.1	8532.2	8698.5	8644.1
11°	8023.1	7969.7	8091.0	8042.9	7920.5	8141.2	8159.0	8313.7	8258.4
12°	7763.8	7677.0	7772.2	7714.6	7585.0	7779.4	7787.9	7933.1	7882.0
13°	7420.9	7363.4	7438.7	7376.9	7294.3	7404.1	7387.4	7525.4	7478.5
14°	7090.6	7018.4	7087.3	7013.2	6926.4	6999.5	6951.4	7071.7	7035.1
15°	6726.6	6654.6	6709.0	6617.9	6515.5	6542.6	6462.2	6574.0	6542.6
16°	6303.2	6231.1	6278.2	6167.3	6046.0	6030.4	5923.8	6022.1	5989.7
17°	5825.5	5773.1	5805.5	5666.6	5539.0	5484.6	5343.5	5430.2	5397.8
18°	5370.7	5268.2	5281.7	5127.1	4932.5	4899.2	4740.3	4822.9	4790.5
19°	4774.7	4726.6	4734.0	4559.4	4362.8	4301.1	4143.2	4216.5	4179.8
20°	4256.1	4183.0	4176.7	3987.5	3792.1	3727.1	3574.4	3649.9	3614.2
21°	3663.4	3708.4	3629.9	3430.3	3188.7	3195.0	3060.2	3067.4	3091.5
22°	2996.5	3160.4	3093.7	2857.3	2555.1	2694.2	2572.9	2581.4	2602.3
23°	2336.6	2507.0	2567.7	2281.3	1953.0	2230.0	2133.9	2140.2	2153.7
24°	1734.5	1975.0	2083.7	1755.4	1406.2	1794.1	1739.7	1747.1	1732.3
25°	1233.7	1516.0	1667.5	1296.4	943.0	1393.6	1382.2	1393.6	1255.7
26°	833.2	1142.6	1315.3	909.5	583.4	1029.8	1099.8	1074.8	814.5
27°	533.2	868.9	1011.1	594.9	370.1	708.8	820.6	813.4	467.3
28°	375.3	603.2	746.5	365.9	285.5	445.3	586.4	535.3	299.0
29°	316.8	392.0	520.7	260.3	232.0	263.5	393.1	312.7	244.6
30°	257.2	260.3	341.8	210.1	187.2	188.1	250.9	204.8	198.7
32.5°	156.8	155.7	147.4	123.3	109.8	109.8	122.4	118.1	117.2
35°	86.8	95.2	87.8	74.2	53.3	65.9	74.2	70.0	58.5
37.5°	47.0	55.4	60.7	40.9	29.3	38.7	50.2	40.9	33.5
40°	24.1	30.2	42.8	23.0	15.7	22.0	34.6	23.0	18.9
42.5°	12.6	16.7	27.2	12.6	7.4	12.6	22.0	12.6	9.4
45°	6.3	8.3	14.6	6.3	4.1	6.3	11.5	7.4	5.2
47.5°	3.1	4.1	7.4	3.1	1.1	3.1	6.3	3.1	3.1
50°	1.1	2.2	4.1	1.1	1.1	1.1	3.1	2.2	2.2
52.5°	1.1	1.1	2.2	1.1	0.0	1.1	2.2	1.1	2.2
55°	1.1	1.1	1.1	0.0	0.0	1.1	1.1	1.1	2.2
57.5°	1.1	1.1	1.1	0.0	0.0	0.0	1.1	1.1	2.2
60°	1.1	1.1	1.1	0.0	0.0	0.0	0.0	1.1	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	1.1	1.1	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

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— 0°-180° - - 45°-225° - - - 90°-270°

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Scaled Data Report



62.5°	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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Scaled Data Report



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