

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: P1219614

Luminaire Tested: **LDSQA6A35950D010TE 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: P1219614
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: LDSQA6A35950D010TE 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

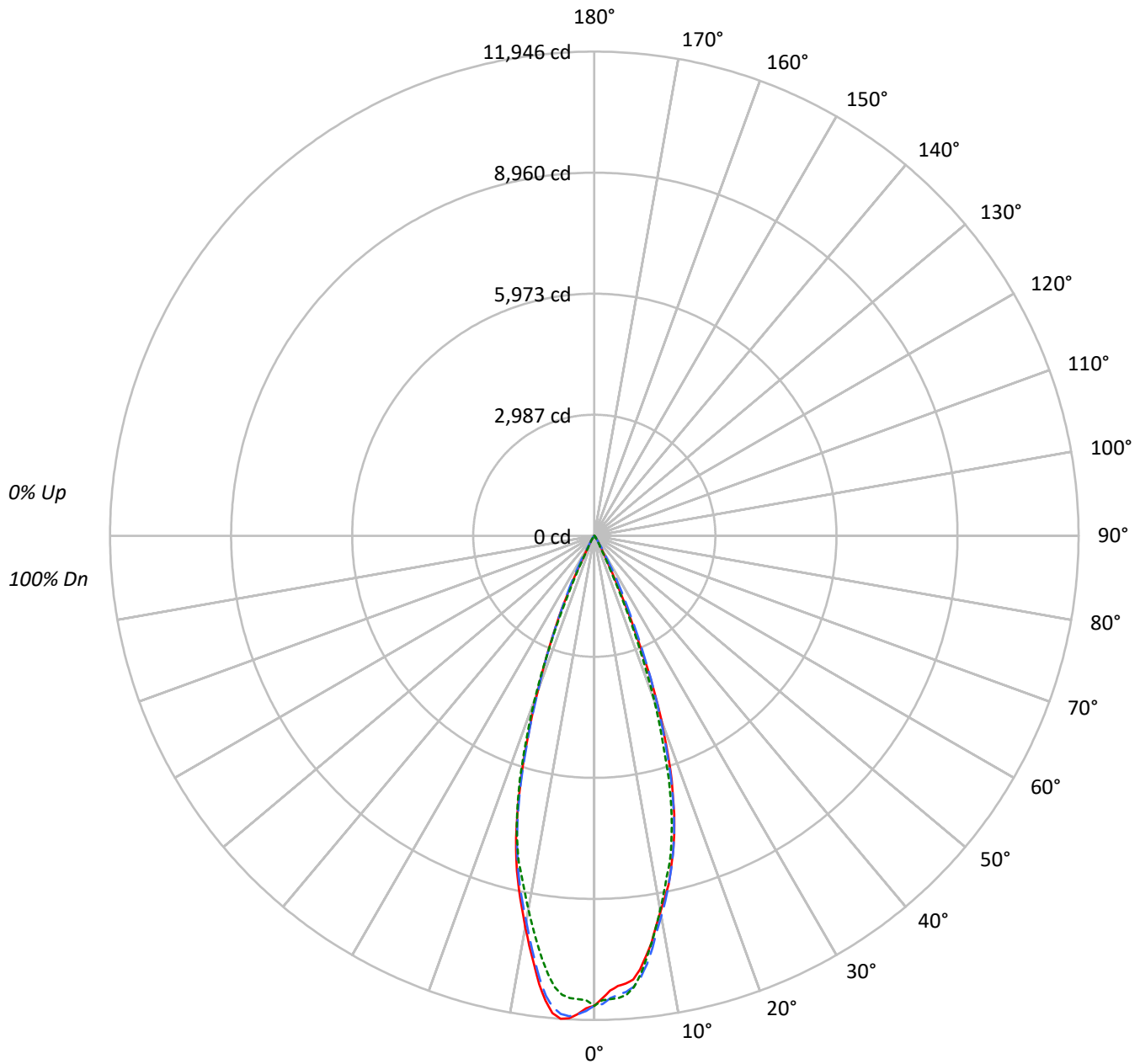
Lumens per Lamp: N/A
Luminaire Lumens: 3863.5 lumens
Efficiency: N/A
Efficacy: 81.0 lumens/watt
Spacing Criteria (0/90/45): 0.6 / 0.59 / 0.55
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

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	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°	499459	499459	499459
5°	475132	483378	510944
10°	411653	409432	428442
15°	339925	329250	330627
20°	221090	196975	187738
25°	66443	50789	67621
30°	14497	10545	11196
35°	5177	3175	3495
40°	1540	1000	1197
45°	432	286	365
50°	74	74	161
55°	83	0	180
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°	1021.8	26.4
10°-20°	1983.4	51.3
20°-30°	783.7	20.3
30°-40°	64.4	1.7
40°-50°	8.8	0.2
50°-60°	1.0	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°	3789.0	98.1
0°-40°	3853.4	99.7
0°-60°	3863.2	100.0
0°-90°	3863.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3863.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	11600	11600	11600	11600	11600	
5°	10993	11169	11184	11687	11822	994
15°	7626	7606	7386	7326	7417	2038
25°	1399	1890	1069	1567	1423	786
35°	98	100	60	84	66	74
45°	7	17	5	13	6	7
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°	11600.3	11600.3	11600.3	11600.3	11600.3	11600.3	11600.3	11600.3	11600.3
1°	11412.9	11282.5	11555.1	11544.4	11459.0	11699.8	11724.8	11879.9	11659.3
2°	11229.2	11126.0	11412.9	11442.6	11442.6	11742.5	11820.7	12015.0	11812.3
3°	11122.5	11037.1	11335.9	11414.1	11422.4	11756.7	11871.7	12089.8	11923.7
4°	11076.2	10998.0	11281.4	11341.9	11353.7	11707.0	11827.8	12076.7	11946.4
5°	10993.3	10905.8	11168.8	11178.2	11184.1	11545.8	11686.7	11933.3	11821.9
6°	10758.6	10712.5	10953.1	10900.9	10884.3	11270.8	11414.1	11644.0	11531.5
7°	10451.8	10420.9	10647.2	10567.9	10526.3	10886.6	11019.3	11237.4	11148.7
8°	10137.6	10062.9	10278.6	10209.9	10139.9	10450.4	10566.7	10768.2	10685.2
9°	9745.2	9707.3	9867.3	9844.8	9749.9	10068.8	10111.4	10308.2	10240.8
10°	9415.7	9369.6	9530.8	9488.0	9364.9	9643.2	9673.0	9861.3	9799.7
11°	9095.6	9035.2	9172.8	9118.3	8979.6	9229.7	9249.8	9425.1	9362.4
12°	8801.7	8703.4	8811.3	8746.0	8599.0	8819.5	8829.1	8993.8	8935.8
13°	8413.0	8347.8	8433.2	8363.2	8269.6	8394.0	8375.1	8531.4	8478.3
14°	8038.6	7956.7	8035.0	7950.8	7852.5	7935.4	7880.7	8017.3	7975.7
15°	7626.0	7544.2	7605.9	7502.8	7386.5	7417.4	7326.1	7453.0	7417.4
16°	7145.9	7064.2	7117.6	6991.9	6854.3	6836.5	6715.8	6827.2	6790.3
17°	6604.2	6545.0	6581.7	6424.2	6279.6	6217.8	6058.0	6156.3	6119.6
18°	6088.7	5972.6	5988.0	5812.6	5592.1	5554.2	5374.0	5467.6	5430.9
19°	5413.1	5358.6	5366.8	5169.0	4946.2	4876.1	4697.3	4780.2	4738.8
20°	4825.3	4742.3	4735.2	4520.7	4299.0	4225.5	4052.5	4137.6	4097.4
21°	4153.2	4204.1	4115.2	3888.9	3615.0	3622.1	3469.2	3477.7	3504.8
22°	3397.0	3583.0	3507.2	3239.3	2896.7	3054.4	2917.0	2926.5	2950.1
23°	2649.1	2842.2	2911.0	2586.2	2214.1	2528.1	2419.1	2426.3	2441.6
24°	1966.3	2238.9	2362.3	1990.1	1594.2	2033.9	1972.4	1980.6	1963.9
25°	1398.6	1718.7	1890.5	1469.7	1069.1	1580.0	1566.9	1580.0	1423.4
26°	944.6	1295.4	1491.0	1031.1	661.3	1167.6	1247.0	1218.5	923.3
27°	604.4	985.1	1146.2	674.4	419.5	803.6	930.4	922.2	529.8
28°	425.5	683.8	846.4	414.9	323.6	504.9	665.0	606.9	339.0
29°	359.0	444.4	590.2	295.3	263.2	298.8	445.7	354.3	277.5
30°	291.6	295.3	387.5	238.3	212.1	213.4	284.5	232.3	225.2
32.5°	177.8	176.5	167.1	139.9	124.5	124.5	138.7	133.8	132.7
35°	98.5	107.8	99.6	84.2	60.4	74.7	84.2	79.4	66.5
37.5°	53.4	62.9	68.7	46.3	33.2	43.8	56.9	46.3	38.0
40°	27.4	34.4	48.7	26.0	17.8	24.9	39.1	26.0	21.3
42.5°	14.2	18.9	30.9	14.2	8.2	14.2	24.9	14.2	10.7
45°	7.1	9.6	16.6	7.1	4.7	7.1	13.1	8.2	6.0
47.5°	3.5	4.7	8.2	3.5	1.1	3.5	7.1	3.5	3.5
50°	1.1	2.4	4.7	1.1	1.1	1.1	3.5	2.4	2.4
52.5°	1.1	1.1	2.4	1.1	0.0	1.1	2.4	1.1	2.4
55°	1.1	1.1	1.1	0.0	0.0	1.1	1.1	1.1	2.4
57.5°	1.1	1.1	1.1	0.0	0.0	0.0	1.1	1.1	2.4
60°	1.1	1.1	1.1	0.0	0.0	0.0	0.0	1.1	0.0

Classified

Scaled Data Report

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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

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Scaled Data Report





— 0°-180° - - 45°-225° - - - 90°-270°

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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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