

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: P1219608

Luminaire Tested: **LDSQA6A30950D010TE LAR35FL 6LSQA1H**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P1219608
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: LDSQA6A30950D010TE 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

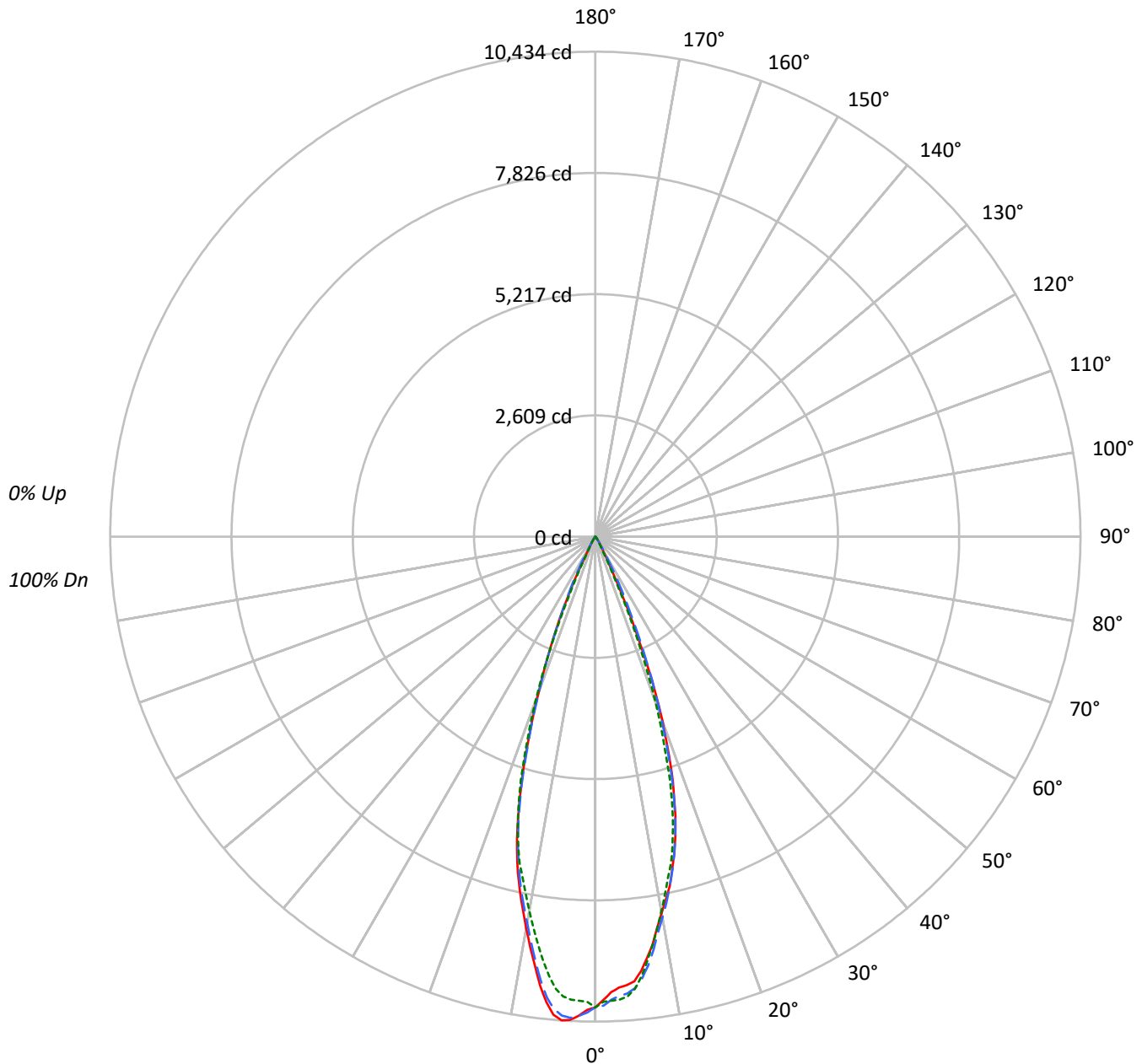
Lumens per Lamp: N/A
Luminaire Lumens: 3374.5 lumens
Efficiency: N/A
Efficacy: 84.8 lumens/watt
Spacing Criteria (0/90/45): 0.6 / 0.59 / 0.55
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 39.8
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



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

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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	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	115	113	111	109	113	111	109	107		107	105	104		103	102	101		100	99	98
2	111	107	104	102	109	106	103	101		103	100	98		100	98	96		97	96	94
3	107	103	99	96	106	101	98	95		99	96	94		96	94	92		94	92	91
4	104	98	94	91	102	97	94	91		95	92	90		93	91	89		92	89	88
5	101	94	90	87	99	94	90	87		92	89	86		90	88	85		89	87	85
6	97	91	87	84	96	90	86	83		89	85	83		88	85	82		87	84	82
7	94	88	83	80	93	87	83	80		86	82	80		85	82	79		84	81	79
8	92	85	80	77	91	84	80	77		83	80	77		82	79	77		82	79	76
9	89	82	78	75	88	82	78	75		81	77	75		80	77	74		79	76	74
10	86	79	75	72	86	79	75	72		78	75	72		78	74	72		77	74	72

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	436240	436240	436240
5°	414995	422200	446269
10°	359552	357607	374216
15°	296902	287577	288780
20°	193104	172045	163977
25°	58034	44362	59065
30°	12663	9212	9784
35°	4515	2770	3043
40°	1338	871	1051
45°	378	256	317
50°	67	67	141
55°	75	0	158
60°	86	0	0
65°	102	0	0
70°	126	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°	892.5	26.4
10°-20°	1732.4	51.3
20°-30°	684.5	20.3
30°-40°	56.3	1.7
40°-50°	7.7	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°	3309.4	98.1
0°-40°	3365.7	99.7
0°-60°	3374.2	100.0
0°-90°	3374.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3374.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	10132	10132	10132	10132	10132	
5°	9602	9755	9769	10208	10326	868
15°	6661	6643	6452	6399	6479	1780
25°	1222	1651	934	1369	1243	686
35°	86	87	53	73	58	64
45°	6	14	4	11	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°	10132.0	10132.0	10132.0	10132.0	10132.0	10132.0	10132.0	10132.0	10132.0
1°	9968.4	9854.5	10092.6	10083.3	10008.8	10218.9	10240.7	10376.3	10183.7
2°	9808.0	9717.9	9968.4	9994.3	9994.3	10256.2	10324.5	10494.3	10317.3
3°	9714.7	9640.2	9901.0	9969.4	9976.6	10268.6	10369.0	10559.5	10414.7
4°	9674.4	9606.1	9853.5	9906.2	9916.6	10225.2	10330.7	10548.1	10434.2
5°	9601.9	9525.4	9755.1	9763.4	9768.6	10084.4	10207.6	10422.9	10325.5
6°	9396.9	9356.6	9566.8	9521.1	9506.6	9844.2	9969.4	10170.3	10072.0
7°	9128.8	9101.9	9299.6	9230.2	9194.0	9508.8	9624.7	9815.1	9737.5
8°	8854.5	8789.2	8977.7	8917.7	8856.5	9127.8	9229.2	9405.2	9332.8
9°	8511.9	8478.7	8618.5	8598.7	8515.9	8794.3	8831.8	9003.6	8944.5
10°	8224.0	8183.7	8324.4	8287.1	8179.5	8422.8	8448.6	8613.3	8559.4
11°	7944.5	7891.7	8011.8	7964.1	7843.1	8061.6	8079.0	8232.2	8177.4
12°	7687.7	7601.8	7696.0	7639.0	7510.7	7703.3	7711.5	7855.5	7804.8
13°	7348.2	7291.3	7365.8	7304.6	7222.9	7331.6	7315.0	7451.7	7405.2
14°	7021.0	6949.7	7017.9	6944.5	6858.5	6931.0	6883.3	7002.4	6966.2
15°	6660.8	6589.3	6643.2	6553.1	6451.6	6478.6	6398.8	6509.7	6478.6
16°	6241.5	6170.0	6216.7	6106.9	5986.9	5971.3	5865.7	5962.9	5930.9
17°	5768.4	5716.7	5748.7	5611.0	5484.8	5431.0	5291.1	5377.1	5345.0
18°	5318.0	5216.6	5230.2	5076.9	4884.3	4851.1	4693.8	4775.6	4743.4
19°	4727.9	4680.3	4687.6	4514.7	4320.1	4259.0	4102.7	4175.2	4138.9
20°	4214.5	4142.0	4135.8	3948.5	3754.9	3690.6	3539.4	3614.1	3578.8
21°	3627.5	3672.0	3594.3	3396.6	3157.5	3163.8	3030.1	3037.4	3061.2
22°	2967.0	3129.6	3063.3	2829.3	2530.1	2667.8	2547.7	2556.0	2576.7
23°	2313.7	2482.5	2542.6	2258.9	1933.8	2208.2	2112.9	2119.1	2132.6
24°	1717.5	1955.5	2063.3	1738.2	1392.4	1776.4	1722.7	1729.9	1715.5
25°	1221.6	1501.0	1651.3	1283.7	933.8	1380.1	1368.6	1380.1	1243.3
26°	825.1	1131.5	1302.4	900.6	577.6	1019.7	1089.1	1064.2	806.4
27°	528.0	860.3	1001.0	589.1	366.4	701.9	812.7	805.4	462.8
28°	371.6	597.4	739.2	362.3	282.7	441.1	580.7	530.0	296.0
29°	313.7	388.1	515.5	257.7	229.8	260.9	389.3	309.5	242.2
30°	254.7	257.7	338.6	208.1	185.3	186.4	248.5	203.0	196.8
32.5°	155.3	154.3	145.9	122.1	108.7	108.7	121.2	116.9	116.0
35°	85.9	94.2	86.9	73.4	52.7	65.2	73.4	69.4	57.9
37.5°	46.5	54.9	60.0	40.5	29.0	38.3	49.7	40.5	33.2
40°	23.8	30.0	42.4	22.8	15.5	21.7	34.2	22.8	18.7
42.5°	12.5	16.5	26.9	12.5	7.3	12.5	21.7	12.5	9.3
45°	6.2	8.2	14.5	6.2	4.2	6.2	11.4	7.3	5.2
47.5°	3.0	4.2	7.3	3.0	1.0	3.0	6.2	3.0	3.0
50°	1.0	2.1	4.2	1.0	1.0	1.0	3.0	2.1	2.1
52.5°	1.0	1.0	2.1	1.0	0.0	1.0	2.1	1.0	2.1
55°	1.0	1.0	1.0	0.0	0.0	1.0	1.0	1.0	2.1
57.5°	1.0	1.0	1.0	0.0	0.0	0.0	1.0	1.0	2.1
60°	1.0	1.0	1.0	0.0	0.0	0.0	0.0	1.0	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°	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	1.0	1.0	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°	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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