

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: P1219596

Luminaire Tested: **LDSQA6A20950D010TE 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: P1219596
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: LDSQA6A20950D010TE 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

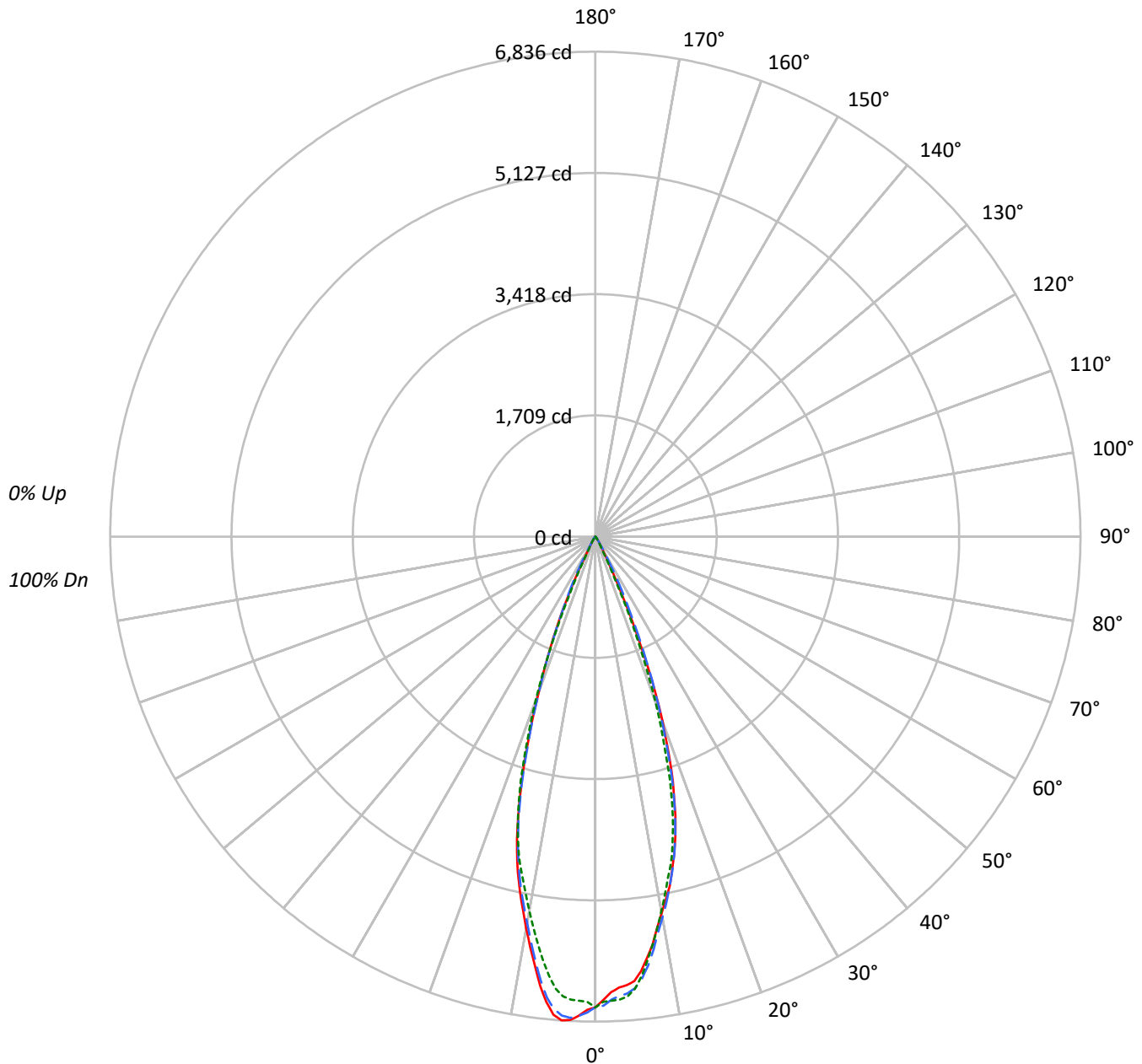
Lumens per Lamp: N/A
Luminaire Lumens: 2210.8 lumens
Efficiency: N/A
Efficacy: 89.1 lumens/watt
Spacing Criteria (0/90/45): 0.6 / 0.59 / 0.55
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 24.8
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



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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°	285799	285799	285799
5°	271881	276596	292376
10°	235558	234286	245164
15°	194510	188407	189192
20°	126511	112714	107432
25°	38020	29060	38694
30°	8298	6036	6408
35°	2964	1819	2003
40°	877	573	686
45°	250	164	207
50°	40	40	94
55°	45	0	105
60°	52	0	0
65°	61	0	0
70°	76	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°	584.7	26.4
10°-20°	1135.0	51.3
20°-30°	448.4	20.3
30°-40°	36.9	1.7
40°-50°	5.1	0.2
50°-60°	0.5	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°	2168.1	98.1
0°-40°	2205.0	99.7
0°-60°	2210.6	100.0
0°-90°	2210.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2210.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	6638	6638	6638	6638	6638	
5°	6291	6391	6400	6687	6765	569
15°	4364	4352	4227	4192	4244	1166
25°	800	1082	612	897	814	450
35°	56	57	35	48	38	42
45°	4	10	3	8	3	4
55°	1	1	0	1	1	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	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	6637.9	6637.9	6637.9	6637.9	6637.9	6637.9	6637.9	6637.9	6637.9
1°	6530.7	6456.1	6612.1	6606.0	6557.1	6694.9	6709.1	6798.0	6671.7
2°	6425.6	6366.6	6530.7	6547.7	6547.7	6719.3	6764.1	6875.2	6759.3
3°	6364.5	6315.7	6486.7	6531.4	6536.2	6727.4	6793.3	6918.0	6823.0
4°	6338.1	6293.2	6455.5	6490.1	6496.9	6699.0	6768.1	6910.5	6835.9
5°	6290.6	6240.5	6391.0	6396.4	6399.7	6606.7	6687.4	6828.4	6764.8
6°	6156.3	6130.0	6267.6	6237.7	6228.2	6449.4	6531.4	6663.0	6598.6
7°	5980.7	5963.0	6092.5	6047.2	6023.4	6229.6	6305.5	6430.3	6379.6
8°	5801.0	5758.3	5881.6	5842.3	5802.3	5980.0	6046.5	6161.8	6114.3
9°	5576.5	5554.7	5646.3	5633.5	5579.1	5761.6	5785.9	5898.6	5860.0
10°	5387.9	5361.5	5453.7	5429.3	5358.8	5518.0	5535.1	5642.8	5607.6
11°	5204.8	5170.2	5248.9	5217.7	5138.3	5281.4	5292.9	5393.2	5357.4
12°	5036.6	4980.4	5042.0	5004.7	4920.6	5046.7	5052.2	5146.4	5113.3
13°	4814.1	4776.8	4825.6	4785.6	4732.0	4803.2	4792.4	4881.9	4851.5
14°	4599.8	4553.0	4597.8	4549.6	4493.3	4540.8	4509.5	4587.6	4563.8
15°	4363.7	4316.9	4352.3	4293.2	4226.8	4244.4	4192.1	4264.7	4244.4
16°	4089.1	4042.3	4072.8	4000.9	3922.2	3912.1	3842.9	3906.7	3885.5
17°	3779.0	3745.2	3766.3	3676.1	3593.3	3557.9	3466.5	3522.8	3501.8
18°	3484.1	3417.6	3426.5	3326.1	3199.9	3178.2	3075.1	3128.6	3107.6
19°	3097.4	3066.3	3071.0	2957.8	2830.4	2790.2	2687.9	2735.3	2711.6
20°	2761.1	2713.7	2709.6	2586.8	2460.0	2417.9	2318.9	2367.7	2344.7
21°	2376.6	2405.7	2354.8	2225.3	2068.6	2072.6	1985.2	1989.9	2005.5
22°	1943.8	2050.3	2006.9	1853.6	1657.6	1747.7	1669.1	1674.6	1688.1
23°	1515.9	1626.4	1665.7	1479.8	1266.9	1446.6	1384.3	1388.4	1397.1
24°	1125.2	1281.2	1351.8	1138.8	912.2	1163.9	1128.6	1133.3	1123.8
25°	800.3	983.4	1081.8	841.0	611.7	904.1	896.6	904.1	814.5
26°	540.5	741.3	853.2	590.0	378.5	668.1	713.5	697.2	528.3
27°	345.9	563.7	655.9	385.9	240.0	459.9	532.4	527.7	303.2
28°	243.5	391.4	484.3	237.3	185.2	288.9	380.5	347.3	194.0
29°	205.5	254.3	337.8	168.9	150.6	171.0	255.0	202.8	158.7
30°	166.9	168.9	221.7	136.3	121.4	122.1	162.9	132.9	128.9
32.5°	101.8	101.0	95.7	80.0	71.2	71.2	79.4	76.5	75.9
35°	56.4	61.7	57.0	48.3	34.6	42.7	48.3	45.4	38.1
37.5°	30.6	36.0	39.3	26.4	18.9	25.1	32.6	26.4	21.7
40°	15.6	19.8	27.9	14.9	10.2	14.2	22.4	14.9	12.2
42.5°	8.1	10.8	17.7	8.1	4.7	8.1	14.2	8.1	6.1
45°	4.1	5.5	9.6	4.1	2.7	4.1	7.5	4.7	3.4
47.5°	2.1	2.7	4.7	2.1	0.6	2.1	4.1	2.1	2.1
50°	0.6	1.4	2.7	0.6	0.6	0.6	2.1	1.4	1.4
52.5°	0.6	0.6	1.4	0.6	0.0	0.6	1.4	0.6	1.4
55°	0.6	0.6	0.6	0.0	0.0	0.6	0.6	0.6	1.4
57.5°	0.6	0.6	0.6	0.0	0.0	0.0	0.6	0.6	1.4
60°	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.6	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.6	0.6	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°	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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