

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: P1212483

Luminaire Tested: **LDSQA6A25935D010TE 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: P1212483
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: LDSQA6A25935D010TE LAR35FL 6LSQA1H
Description: PORTFOLIO 6" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,
SELF-FLANGED, 35° FLOOD
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

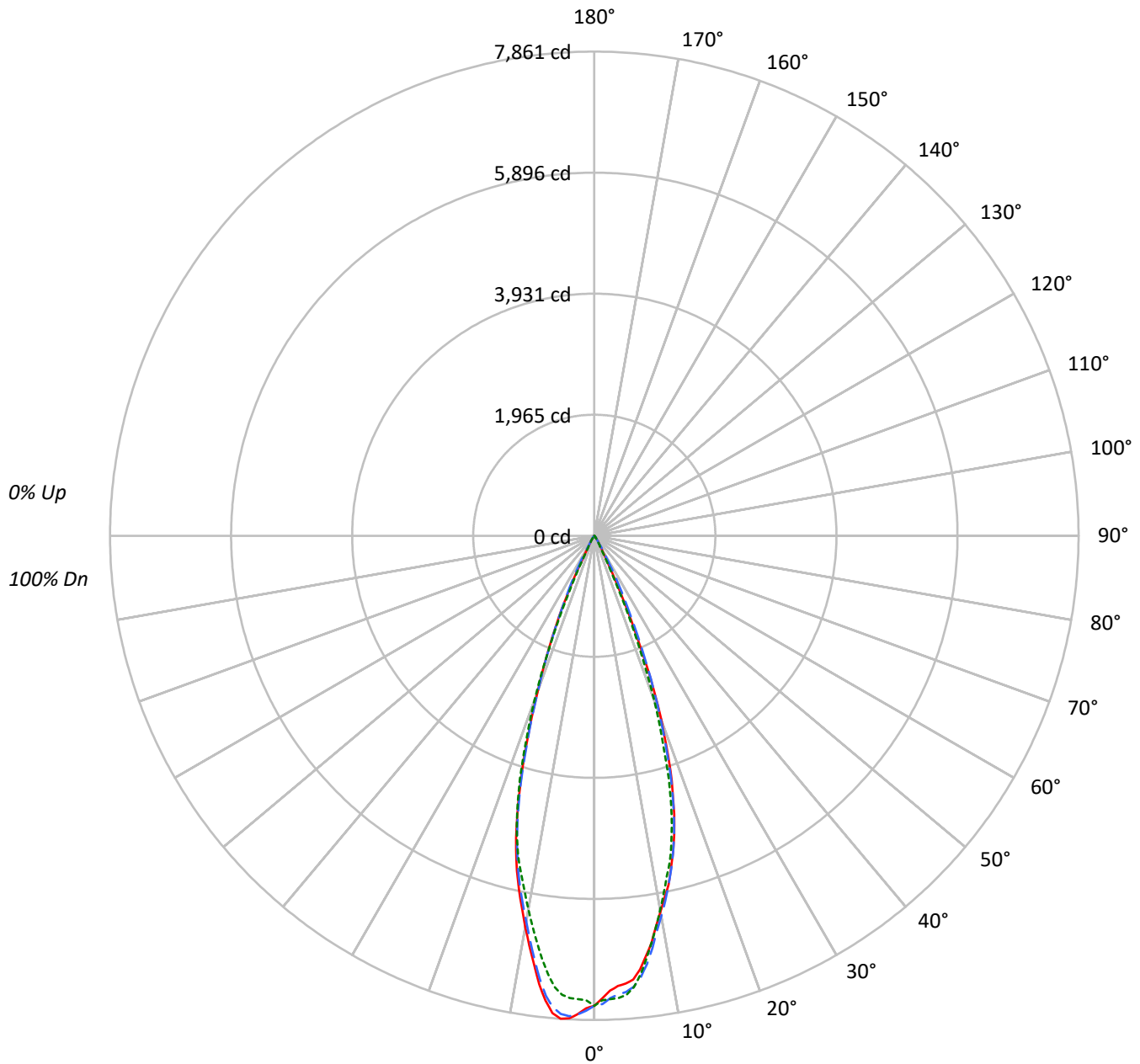
Lumens per Lamp: N/A
Luminaire Lumens: 2542.3 lumens
Efficiency: N/A
Efficacy: 81.5 lumens/watt
Spacing Criteria (0/90/45): 0.6 / 0.59 / 0.55
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 31.2
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°	328644	328644	328644
5°	312641	318070	336205
10°	270875	269411	281923
15°	223675	216654	217555
20°	145475	129612	123537
25°	43725	33416	44499
30°	9541	6940	7368
35°	3406	2092	2292
40°	1012	658	792
45°	286	189	237
50°	54	54	107
55°	60	0	120
60°	69	0	0
65°	82	0	0
70°	101	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°	672.4	26.4
10°-20°	1305.1	51.3
20°-30°	515.7	20.3
30°-40°	42.4	1.7
40°-50°	5.8	0.2
50°-60°	0.7	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°	2493.2	98.1
0°-40°	2535.6	99.7
0°-60°	2542.1	100.0
0°-90°	2542.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2542.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	7633	7633	7633	7633	7633	
5°	7234	7349	7359	7690	7779	654
15°	5018	5005	4860	4821	4881	1341
25°	920	1244	703	1031	937	517
35°	65	66	40	55	44	48
45°	5	11	3	9	4	5
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°	7633.0	7633.0	7633.0	7633.0	7633.0	7633.0	7633.0	7633.0	7633.0
1°	7509.8	7424.1	7603.3	7596.3	7540.2	7698.6	7714.9	7817.1	7672.0
2°	7388.9	7321.0	7509.8	7529.3	7529.3	7726.6	7778.1	7905.9	7772.7
3°	7318.7	7262.6	7459.0	7510.5	7516.0	7735.9	7811.6	7955.1	7845.9
4°	7288.3	7236.8	7423.3	7463.0	7470.7	7703.2	7782.8	7946.5	7860.7
5°	7233.7	7176.0	7349.2	7355.3	7359.3	7597.1	7689.9	7852.2	7778.9
6°	7079.3	7048.9	7207.1	7172.8	7161.9	7416.2	7510.5	7661.9	7587.8
7°	6877.3	6856.9	7005.9	6953.8	6926.4	7163.5	7250.9	7394.4	7335.9
8°	6670.6	6621.4	6763.4	6718.2	6672.2	6876.5	6953.0	7085.6	7030.9
9°	6412.5	6387.5	6492.8	6477.9	6415.5	6625.4	6653.5	6782.9	6738.4
10°	6195.7	6165.2	6271.3	6243.2	6162.2	6345.4	6364.8	6488.9	6448.4
11°	5985.0	5945.2	6035.8	5999.9	5908.7	6073.2	6086.5	6201.9	6160.6
12°	5791.6	5726.8	5797.9	5755.0	5658.2	5803.3	5809.6	5918.0	5879.8
13°	5535.9	5492.9	5549.0	5503.0	5441.4	5523.4	5510.9	5613.8	5578.7
14°	5289.4	5235.5	5287.0	5231.7	5166.9	5221.6	5185.7	5275.3	5248.0
15°	5018.0	4964.1	5004.7	4936.8	4860.5	4880.7	4820.6	4904.1	4880.7
16°	4702.1	4648.2	4683.3	4600.7	4510.3	4498.6	4418.9	4492.3	4468.1
17°	4345.6	4306.7	4330.9	4227.1	4132.0	4091.5	3986.1	4050.9	4026.7
18°	4006.4	3930.0	3940.1	3824.7	3679.6	3654.7	3536.1	3597.8	3573.6
19°	3561.9	3526.0	3531.4	3401.2	3254.6	3208.6	3090.8	3145.5	3118.1
20°	3175.0	3120.4	3115.8	2974.5	2828.8	2780.4	2666.5	2722.6	2696.2
21°	2732.8	2766.4	2707.9	2558.9	2378.7	2383.4	2282.8	2288.3	2306.2
22°	2235.2	2357.7	2307.8	2131.5	1906.2	2009.9	1919.3	1925.6	1941.3
23°	1743.1	1870.2	1915.5	1701.7	1456.9	1663.6	1591.7	1596.5	1606.6
24°	1293.8	1473.2	1554.4	1309.5	1049.0	1338.4	1297.8	1303.3	1292.4
25°	920.4	1130.9	1243.9	967.0	703.4	1039.7	1031.0	1039.7	936.7
26°	621.6	852.4	981.1	678.6	435.2	768.2	820.5	801.7	607.5
27°	397.8	648.1	754.1	443.8	276.1	528.8	612.2	606.7	348.6
28°	280.0	450.1	556.9	272.9	212.9	332.2	437.6	399.3	223.0
29°	236.3	292.5	388.4	194.2	173.2	196.6	293.3	233.1	182.5
30°	191.9	194.2	255.1	156.8	139.6	140.4	187.1	152.8	148.2
32.5°	117.0	116.2	110.0	92.0	81.9	81.9	91.2	88.2	87.4
35°	64.8	71.0	65.6	55.3	39.8	49.1	55.3	52.3	43.6
37.5°	35.1	41.4	45.2	30.5	21.8	28.9	37.4	30.5	25.0
40°	18.0	22.6	31.9	17.2	11.7	16.4	25.8	17.2	14.1
42.5°	9.3	12.5	20.2	9.3	5.5	9.3	16.4	9.3	7.0
45°	4.7	6.3	10.9	4.7	3.1	4.7	8.6	5.5	3.9
47.5°	2.4	3.1	5.5	2.4	0.8	2.4	4.7	2.4	2.4
50°	0.8	1.6	3.1	0.8	0.8	0.8	2.4	1.6	1.6
52.5°	0.8	0.8	1.6	0.8	0.0	0.8	1.6	0.8	1.6
55°	0.8	0.8	0.8	0.0	0.0	0.8	0.8	0.8	1.6
57.5°	0.8	0.8	0.8	0.0	0.0	0.0	0.8	0.8	1.6
60°	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.8	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°	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.8	0.8	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°	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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