

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: P1212367

Luminaire Tested: **LDSQA4A35930D010TE LAR35FL 4LSQA1H**

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: P1212367
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26795)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDSQA4A35930D010TE LAR35FL 4LSQA1H
Description: PORTFOLIO 4" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,
SELF-FLANGED, 35° FLOOD
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

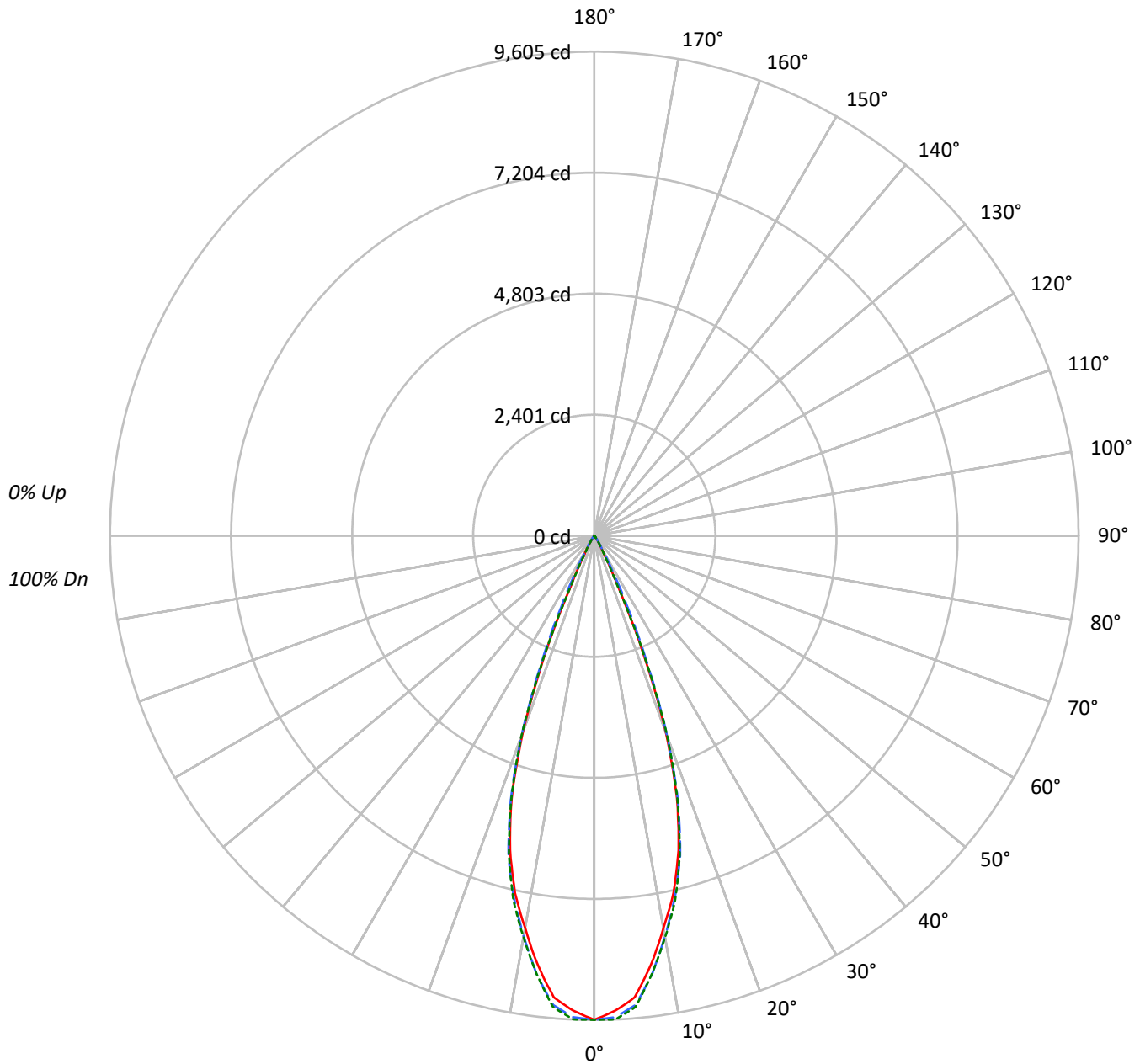
Lumens per Lamp: N/A
Luminaire Lumens: 3421.4 lumens
Efficiency: N/A
Efficacy: 71.7 lumens/watt
Spacing Criteria (0/90/45): 0.62 / 0.63 / 0.57
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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					0
RW	70	50	30	10	70	50	30	10		50	30	10			50	30	10			0
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			100
1	115	113	111	109	112	110	109	107		107	105	104			103	102	101			96
2	111	107	104	101	109	105	103	100		102	100	98			99	98	96			93
3	107	102	98	95	105	101	97	95		98	96	93			96	94	92			89
4	103	98	94	91	102	97	93	90		95	92	89			93	90	88			86
5	100	94	90	86	99	93	89	86		91	88	85			90	87	85			83
6	97	90	86	83	96	90	85	82		88	85	82			87	84	81			80
7	94	87	83	79	93	86	82	79		85	82	79			84	81	79			77
8	91	84	80	77	90	83	79	76		82	79	76			82	78	76			74
9	88	81	77	74	87	81	77	74		80	76	73			79	76	73			72
10	86	78	74	71	85	78	74	71		77	74	71			77	73	71			70

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	930188	930188	930188
5°	893851	908837	912513
10°	777260	793156	795439
15°	647440	659556	656647
20°	425443	435030	435639
25°	118017	165904	116136
30°	28312	35952	28793
35°	7569	13068	7403
40°	2757	4970	2580
45°	1384	1795	1192
50°	874	874	648
55°	490	490	253
60°	562	291	291
65°	344	344	344
70°	425	425	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	843.8	24.7
10°-20°	1749.6	51.1
20°-30°	747.2	21.8
30°-40°	66.0	1.9
40°-50°	9.8	0.3
50°-60°	2.8	0.1
60°-70°	1.5	0.0
70°-80°	0.7	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°	3340.7	97.6
0°-40°	3406.7	99.6
0°-60°	3419.3	99.9
0°-90°	3421.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3421.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9602	9602	9602	9602	9602	
5°	9192	9267	9346	9331	9384	833
15°	6456	6518	6576	6528	6547	1731
25°	1104	1504	1552	1485	1086	677
35°	64	80	110	78	63	54
45°	10	10	13	10	9	9
55°	3	3	3	3	2	3
65°	2	2	2	2	2	2
75°	0	2	0	0	0	1
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°
0°	9601.9	9601.9	9601.9	9601.9	9601.9
2.5°	9433.2	9500.1	9559.7	9555.3	9604.8
5°	9191.7	9267.4	9345.8	9331.4	9383.6
7.5°	8589.5	8666.6	8768.5	8729.2	8764.0
10°	7901.4	7982.9	8063.0	8038.1	8086.2
12.5°	7257.1	7303.6	7361.8	7357.5	7408.3
15°	6455.5	6518.1	6576.3	6528.3	6547.3
17.5°	5451.9	5476.6	5520.3	5472.3	5485.3
20°	4126.8	4195.1	4219.8	4164.6	4225.7
22.5°	2581.9	2746.3	2759.4	2730.3	2638.7
25°	1104.1	1504.0	1552.1	1485.2	1086.5
27.5°	446.6	570.1	739.0	558.6	434.9
30°	253.1	274.9	321.4	270.5	257.4
32.5°	120.7	154.1	184.8	149.8	122.2
35°	64.0	80.0	110.5	78.5	62.6
37.5°	36.4	46.5	66.9	43.7	36.4
40°	21.8	27.6	39.3	26.1	20.4
42.5°	14.6	17.4	21.8	16.1	13.1
45°	10.1	10.1	13.1	10.1	8.7
47.5°	7.2	7.2	8.7	5.8	5.8
50°	5.8	5.8	5.8	4.3	4.3
52.5°	4.3	4.3	4.3	2.9	2.9
55°	2.9	2.9	2.9	2.9	1.5
57.5°	2.9	2.9	2.9	1.5	1.5
60°	2.9	2.9	1.5	1.5	1.5
62.5°	1.5	1.5	1.5	1.5	1.5
65°	1.5	1.5	1.5	1.5	1.5
67.5°	1.5	1.5	1.5	1.5	1.5
70°	1.5	1.5	1.5	1.5	0.0
72.5°	1.5	1.5	1.5	1.5	1.5
75°	0.0	1.5	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	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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