

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: P1212353

Luminaire Tested: **LDSQA4A35927D010TE 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: P1212353
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: LDSQA4A35927D010TE LAR35FL 4LSQA1H
Description: PORTFOLIO 4" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,
SELF-FLANGED, 35° FLOOD
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

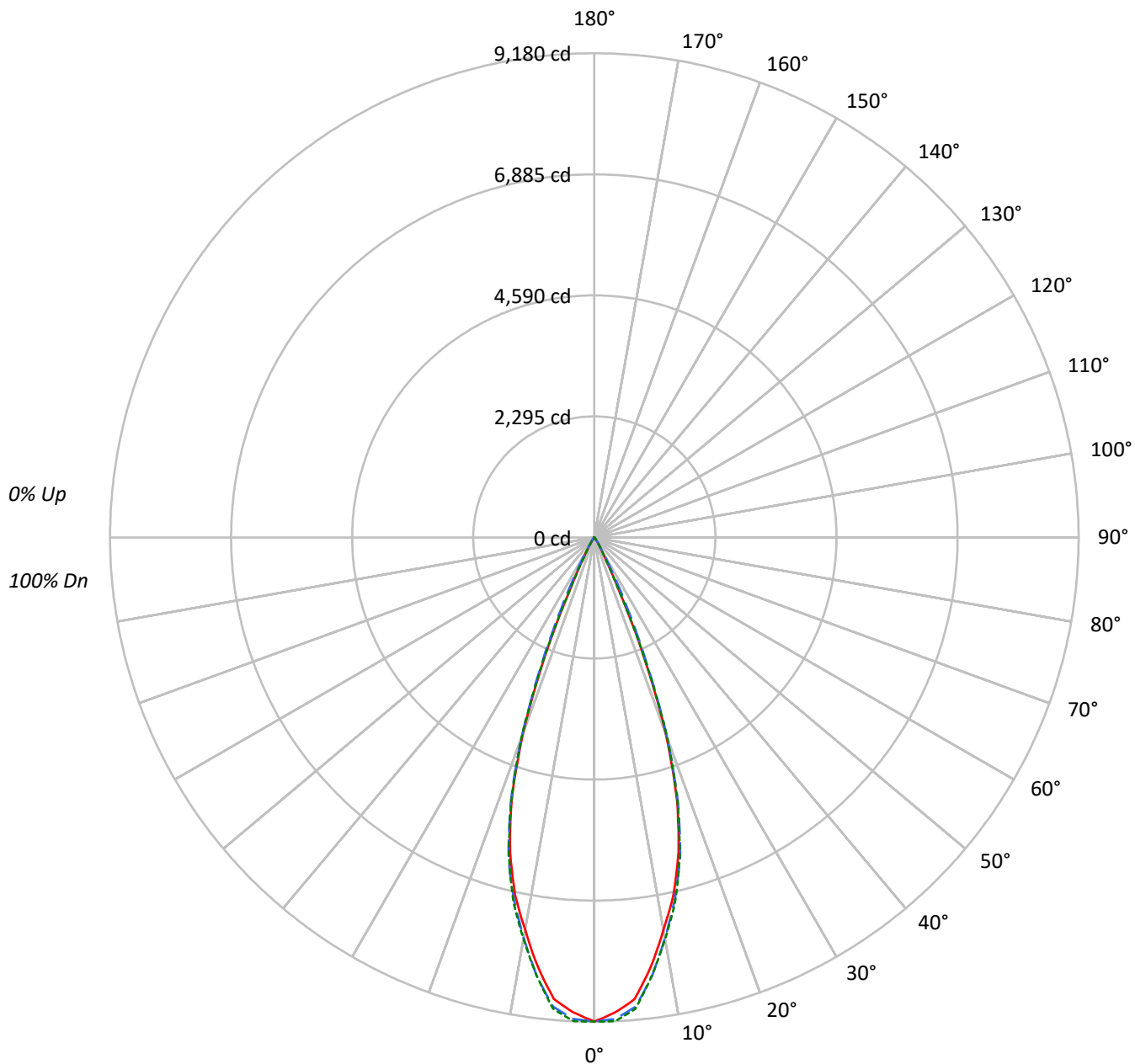
Lumens per Lamp: N/A
Luminaire Lumens: 3270.2 lumens
Efficiency: N/A
Efficacy: 68.6 lumens/watt
Spacing Criteria (0/90/45): 0.62 / 0.63 / 0.57
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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				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	112	110	109	107	107	105	104		103	102	101		99
2	111	107	104	101	109	105	103	100	102	100	98		99	98	96		97
3	107	102	98	95	105	101	97	95	98	96	93		96	94	92		94
4	103	98	94	91	102	97	93	90	95	92	89		93	90	88		91
5	100	94	90	86	99	93	89	86	91	88	85		90	87	85		88
6	97	90	86	83	96	90	85	82	88	85	82		87	84	81		86
7	94	87	83	79	93	86	82	79	85	82	79		84	81	79		83
8	91	84	80	77	90	83	79	76	82	79	76		82	78	76		81
9	88	81	77	74	87	81	77	74	80	76	73		79	76	73		78
10	86	78	74	71	85	78	74	71	77	74	71		77	73	71		76

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	889036	889036	889036
5°	854302	868636	872156
10°	742870	758058	760242
15°	618797	630381	627592
20°	406608	415793	416360
25°	112780	158561	111016
30°	27059	34364	27529
35°	7238	12489	7072
40°	2643	4755	2453
45°	1329	1713	1123
50°	829	829	633
55°	473	473	253
60°	543	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°	806.5	24.7
10°-20°	1672.2	51.1
20°-30°	714.2	21.8
30°-40°	63.1	1.9
40°-50°	9.4	0.3
50°-60°	2.7	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°	3192.9	97.6
0°-40°	3256.0	99.6
0°-60°	3268.0	99.9
0°-90°	3270.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3270.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9177	9177	9177	9177	9177	
5°	8785	8857	8932	8918	8969	796
15°	6170	6230	6285	6239	6258	1654
25°	1055	1438	1483	1420	1039	647
35°	61	76	106	75	60	51
45°	10	10	12	10	8	8
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°	9177.1	9177.1	9177.1	9177.1	9177.1
2.5°	9015.7	9079.7	9136.8	9132.6	9179.9
5°	8785.0	8857.3	8932.4	8918.5	8968.6
7.5°	8209.5	8283.2	8380.4	8343.0	8376.2
10°	7551.8	7629.7	7706.2	7682.6	7728.4
12.5°	6935.9	6980.5	7036.1	7031.9	7080.6
15°	6169.9	6229.7	6285.4	6239.4	6257.6
17.5°	5210.7	5234.3	5276.0	5230.1	5242.6
20°	3944.1	4009.5	4033.2	3980.3	4038.7
22.5°	2467.7	2624.9	2637.3	2609.5	2521.9
25°	1055.1	1437.5	1483.4	1419.5	1038.6
27.5°	426.8	544.9	706.3	533.8	415.7
30°	241.9	262.8	307.2	258.6	246.1
32.5°	115.3	147.5	176.6	143.2	116.8
35°	61.2	76.5	105.6	75.0	59.8
37.5°	34.8	44.5	64.0	41.7	34.8
40°	20.9	26.4	37.6	25.0	19.4
42.5°	13.9	16.7	20.9	15.3	12.5
45°	9.7	9.7	12.5	9.7	8.2
47.5°	6.9	6.9	8.2	5.5	5.5
50°	5.5	5.5	5.5	4.2	4.2
52.5°	4.2	4.2	4.2	2.8	2.8
55°	2.8	2.8	2.8	2.8	1.5
57.5°	2.8	2.8	2.8	1.5	1.5
60°	2.8	2.8	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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