

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: P1219464

Luminaire Tested: **LDSQA4A15927D010TE LAR25NF 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: P1219464
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26785)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDSQA4A15927D010TE LAR25NF 4LSQA1H
Description: PORTFOLIO 4" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,
SELF-FLANGED, 25° NARROW FLOOD
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

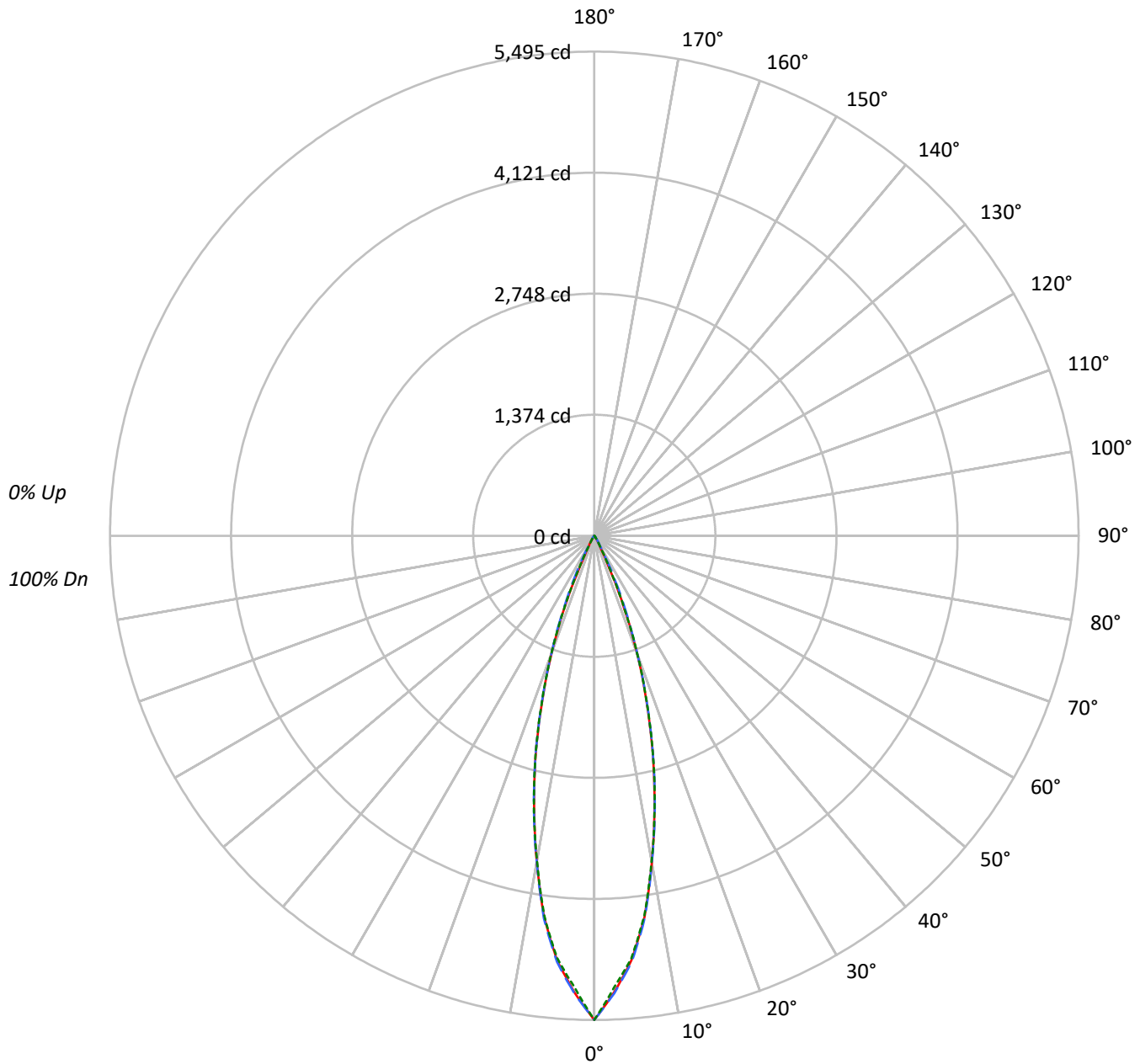
Lumens per Lamp: N/A
Luminaire Lumens: 1424.8 lumens
Efficiency: N/A
Efficacy: 69.8 lumens/watt
Spacing Criteria (0/90/45): 0.47 / 0.47 / 0.49
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 20.4
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		0
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		100
1	115	113	111	109	113	111	109	107	107	105	104		103	102	101		97
2	111	108	105	102	109	106	103	101	103	101	99		100	98	97		93
3	108	103	99	96	106	102	98	96	99	96	94		97	95	93		90
4	104	99	95	92	103	98	94	91	96	93	90		94	91	89		87
5	101	95	91	88	100	94	90	88	93	89	87		91	88	86		84
6	98	92	88	84	97	91	87	84	90	86	84		88	85	83		82
7	95	89	84	81	94	88	84	81	87	83	81		86	83	80		79
8	92	86	82	79	91	85	81	79	84	81	78		84	80	78		77
9	90	83	79	76	89	83	79	76	82	78	76		81	78	76		74
10	87	81	77	74	87	80	76	74	80	76	74		79	76	73		72

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	532321	532321	532321
5°	470542	472166	468159
10°	369831	370264	368681
15°	257452	258194	258374
20°	146051	147000	147505
25°	39368	59581	44285
30°	9743	13323	10023
35°	2909	6102	3122
40°	1163	2011	1163
45°	589	836	507
50°	377	377	181
55°	321	203	101
60°	233	116	116
65°	138	138	138
70°	170	170	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	431.1	30.3
10°-20°	701.0	49.2
20°-30°	260.6	18.3
30°-40°	25.9	1.8
40°-50°	4.3	0.3
50°-60°	1.2	0.1
60°-70°	0.6	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°	1392.7	97.7
0°-40°	1418.5	99.6
0°-60°	1424.1	99.9
0°-90°	1424.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1424.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5495	5495	5495	5495	5495	
5°	4839	4887	4855	4912	4814	428
15°	2567	2596	2574	2617	2576	694
25°	368	541	557	520	414	230
35°	25	31	52	32	26	20
45°	4	5	6	5	4	4
55°	2	1	1	1	1	2
65°	1	1	1	1	1	1
75°	0	1	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°
0°	5494.9	5494.9	5494.9	5494.9	5494.9
2.5°	5185.5	5213.1	5196.0	5242.0	5130.9
5°	4838.7	4887.2	4855.4	4912.4	4814.2
7.5°	4362.4	4412.7	4380.3	4435.5	4347.7
10°	3759.6	3797.0	3764.0	3817.3	3747.9
12.5°	3156.9	3194.3	3169.8	3218.9	3163.6
15°	2567.0	2595.9	2574.4	2616.7	2576.2
17.5°	1967.9	1995.5	1975.8	2010.3	1979.6
20°	1416.7	1440.6	1425.9	1454.7	1430.8
22.5°	879.6	943.5	953.9	956.3	886.9
25°	368.3	540.7	557.4	520.5	414.3
27.5°	151.6	198.9	265.1	209.3	159.6
30°	87.1	101.3	119.1	104.3	89.6
32.5°	43.6	56.4	77.9	59.5	46.0
35°	24.6	30.7	51.6	31.9	26.4
37.5°	14.8	17.8	25.7	18.4	15.3
40°	9.2	11.1	15.9	11.7	9.2
42.5°	6.1	7.3	9.8	7.3	6.1
45°	4.3	5.0	6.1	5.0	3.7
47.5°	3.1	3.1	3.7	3.1	2.5
50°	2.5	2.5	2.5	1.9	1.2
52.5°	1.9	1.9	1.9	1.2	1.2
55°	1.9	1.2	1.2	1.2	0.6
57.5°	1.2	1.2	1.2	0.6	0.6
60°	1.2	1.2	0.6	0.6	0.6
62.5°	0.6	0.6	0.6	0.6	0.6
65°	0.6	0.6	0.6	0.6	0.6
67.5°	0.6	0.6	0.6	0.6	0.6
70°	0.6	0.6	0.6	0.6	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.6	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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