

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: P1212349

Luminaire Tested: **LDSQA4A35927D010TE 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: P1212349
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: LDSQA4A35927D010TE 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

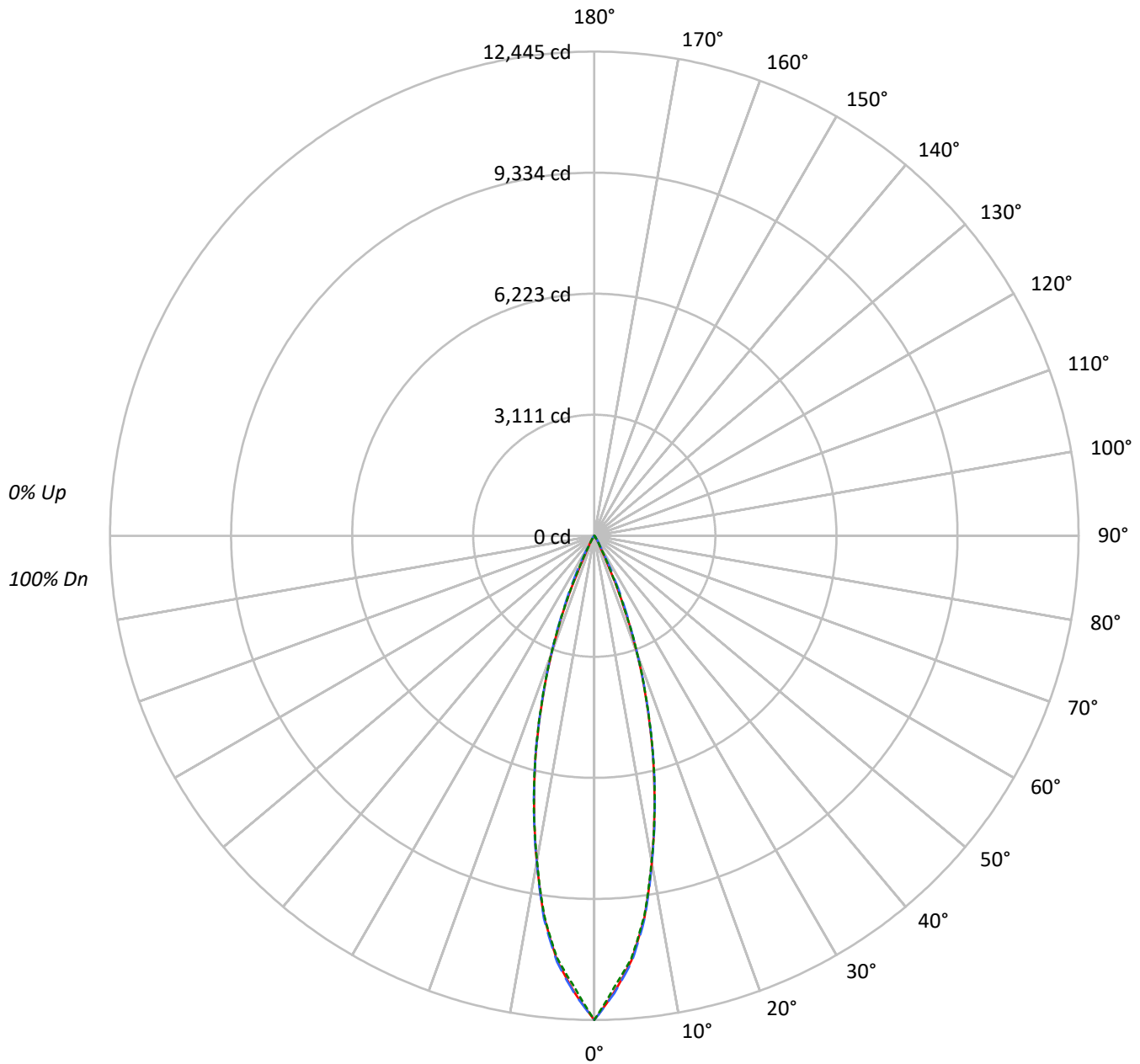
Lumens per Lamp: N/A
Luminaire Lumens: 3227.1 lumens
Efficiency: N/A
Efficacy: 67.7 lumens/watt
Spacing Criteria (0/90/45): 0.47 / 0.47 / 0.49
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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		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°	1205634	1205634	1205634
5°	1065723	1069360	1060297
10°	837620	838574	835023
15°	583082	584757	585179
20°	330773	332927	334082
25°	89157	134938	100295
30°	22082	30169	22708
35°	6575	13813	7072
40°	2643	4565	2643
45°	1329	1904	1123
50°	829	829	422
55°	709	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°	976.4	30.3
10°-20°	1587.7	49.2
20°-30°	590.2	18.3
30°-40°	58.6	1.8
40°-50°	9.8	0.3
50°-60°	2.7	0.1
60°-70°	1.5	0.0
70°-80°	0.3	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°	3154.2	97.7
0°-40°	3212.8	99.6
0°-60°	3225.3	99.9
0°-90°	3227.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3227.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12445	12445	12445	12445	12445	
5°	10959	11069	10996	11126	10903	970
15°	5814	5879	5830	5926	5835	1573
25°	834	1225	1262	1179	938	521
35°	56	70	117	72	60	45
45°	10	11	14	11	8	8
55°	4	3	3	3	2	3
65°	2	2	2	2	2	2
75°	0	2	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°	12445.2	12445.2	12445.2	12445.2	12445.2
2.5°	11744.4	11806.9	11768.0	11872.4	11620.7
5°	10959.1	11068.8	10996.5	11125.8	10903.3
7.5°	9880.3	9994.1	9920.4	10045.7	9846.8
10°	8515.0	8599.8	8524.7	8645.8	8488.6
12.5°	7149.8	7234.6	7179.0	7290.2	7165.1
15°	5813.8	5879.2	5830.5	5926.4	5834.7
17.5°	4456.9	4519.5	4475.1	4552.9	4483.4
20°	3208.5	3262.8	3229.4	3294.7	3240.6
22.5°	1992.2	2136.7	2160.4	2166.0	2008.8
25°	834.1	1224.8	1262.4	1179.0	938.3
27.5°	343.3	450.4	600.6	474.1	361.5
30°	197.4	229.4	269.7	236.4	203.0
32.5°	98.7	127.8	176.6	134.8	104.2
35°	55.6	69.5	116.8	72.3	59.8
37.5°	33.4	40.4	58.3	41.7	34.7
40°	20.9	25.0	36.1	26.4	20.9
42.5°	13.9	16.7	22.2	16.7	13.9
45°	9.7	11.2	13.9	11.2	8.2
47.5°	6.9	6.9	8.2	6.9	5.5
50°	5.5	5.5	5.5	4.2	2.8
52.5°	4.2	4.2	4.2	2.8	2.8
55°	4.2	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°	0.0	0.0	0.0	0.0	0.0
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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