

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: P1212345

Luminaire Tested: **LDSQA4A35927D010TE LAR15SP 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: P1212345
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26794)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDSQA4A35927D010TE LAR15SP 4LSQA1H
Description: PORTFOLIO 4" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,
SELF-FLANGED, 15° SPOT
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

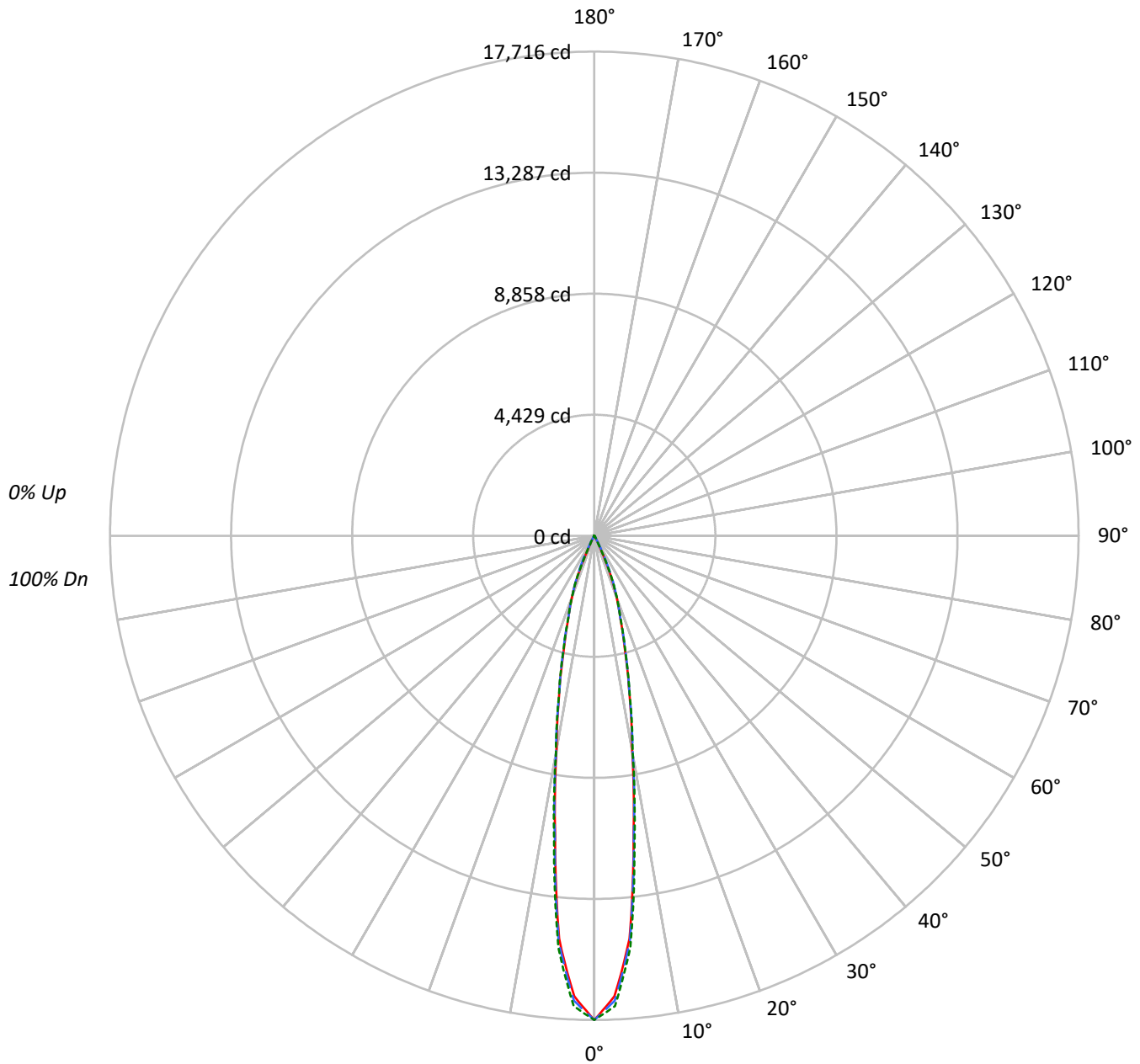
Lumens per Lamp: N/A
Luminaire Lumens: 2908.7 lumens
Efficiency: N/A
Efficacy: 61.0 lumens/watt
Spacing Criteria (0/90/45): 0.32 / 0.32 / 0.36
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	115	113	111	110	113	111	110	108		107	106	105		104	103	102		100	99	99
2	112	108	105	103	110	107	104	102		104	102	100		101	99	98		98	97	96
3	108	104	101	98	107	103	100	97		100	98	96		98	96	94		96	94	93
4	105	100	97	94	104	99	96	93		97	95	92		96	93	91		94	92	90
5	103	97	93	90	101	96	93	90		95	92	89		93	91	89		92	90	88
6	100	94	90	87	99	93	90	87		92	89	87		91	88	86		90	87	86
7	97	91	88	85	96	91	87	85		90	87	84		89	86	84		88	85	83
8	95	89	85	82	94	88	85	82		88	84	82		87	84	82		86	83	81
9	93	87	83	80	92	86	83	80		85	82	80		85	82	80		84	81	79
10	91	84	81	78	90	84	81	78		83	80	78		83	80	78		82	80	78

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1716245	1716245	1716245
5°	1438513	1450679	1471762
10°	782621	794238	797249
15°	432764	439734	441409
20°	245072	245783	247216
25°	66871	104763	65673
30°	10728	16332	10414
35°	3619	6079	3453
40°	1581	2453	1581
45°	945	1123	754
50°	633	633	422
55°	473	473	253
60°	291	291	291
65°	344	344	344
70°	425	425	425
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1180.9	40.6
10°-20°	1248.7	42.9
20°-30°	439.3	15.1
30°-40°	29.6	1.0
40°-50°	6.1	0.2
50°-60°	2.1	0.1
60°-70°	1.4	0.0
70°-80°	0.5	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°	2869.0	98.6
0°-40°	2898.5	99.6
0°-60°	2906.8	99.9
0°-90°	2908.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2908.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	17716	17716	17716	17716	17716	
5°	14793	15015	14918	14945	15134	1167
15°	4315	4387	4384	4375	4401	1236
25°	626	950	980	934	614	387
35°	31	38	51	38	29	24
45°	7	7	8	7	6	6
55°	3	3	3	2	2	3
65°	2	2	2	2	2	1
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°	17716.0	17716.0	17716.0	17716.0	17716.0
2.5°	16865.3	17086.3	17030.8	16994.6	17226.7
5°	14792.6	15014.9	14917.7	14945.4	15134.5
7.5°	10997.5	11185.1	11085.0	11126.7	11271.3
10°	7955.9	8142.1	8074.0	8096.2	8104.6
12.5°	5931.8	6013.8	5959.5	5974.9	6002.6
15°	4315.0	4387.3	4384.5	4374.8	4401.2
17.5°	3166.7	3201.6	3166.7	3165.4	3183.5
20°	2377.2	2425.8	2384.1	2389.7	2398.0
22.5°	1597.3	1694.5	1677.8	1657.1	1634.9
25°	625.6	949.5	980.1	934.1	614.4
27.5°	179.4	296.0	421.3	290.5	173.7
30°	95.9	114.0	146.0	111.2	93.1
32.5°	51.4	65.3	83.4	64.0	50.1
35°	30.6	37.6	51.4	37.6	29.2
37.5°	19.4	23.7	31.9	23.7	19.4
40°	12.5	15.3	19.4	15.3	12.5
42.5°	9.7	11.2	12.5	9.7	8.2
45°	6.9	6.9	8.2	6.9	5.5
47.5°	5.5	5.5	5.5	4.2	4.2
50°	4.2	4.2	4.2	2.8	2.8
52.5°	2.8	2.8	2.8	2.8	2.8
55°	2.8	2.8	2.8	1.5	1.5
57.5°	2.8	1.5	1.5	1.5	1.5
60°	1.5	1.5	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	0.0
70°	1.5	1.5	1.5	1.5	1.5
72.5°	1.5	1.5	1.5	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

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— 0°-180° - - 45°-225° - - - 90°-270°

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