

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: P1212343

Luminaire Tested: **LDSQA4A35927D010TE LAR15SP 4LSQA1H-LSF-20**

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: P1212343
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26829)
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-LSF-20
Description: PORTFOLIO 4" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,
SELF-FLANGED, 15° SPOT WITH SOLITE LENS
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

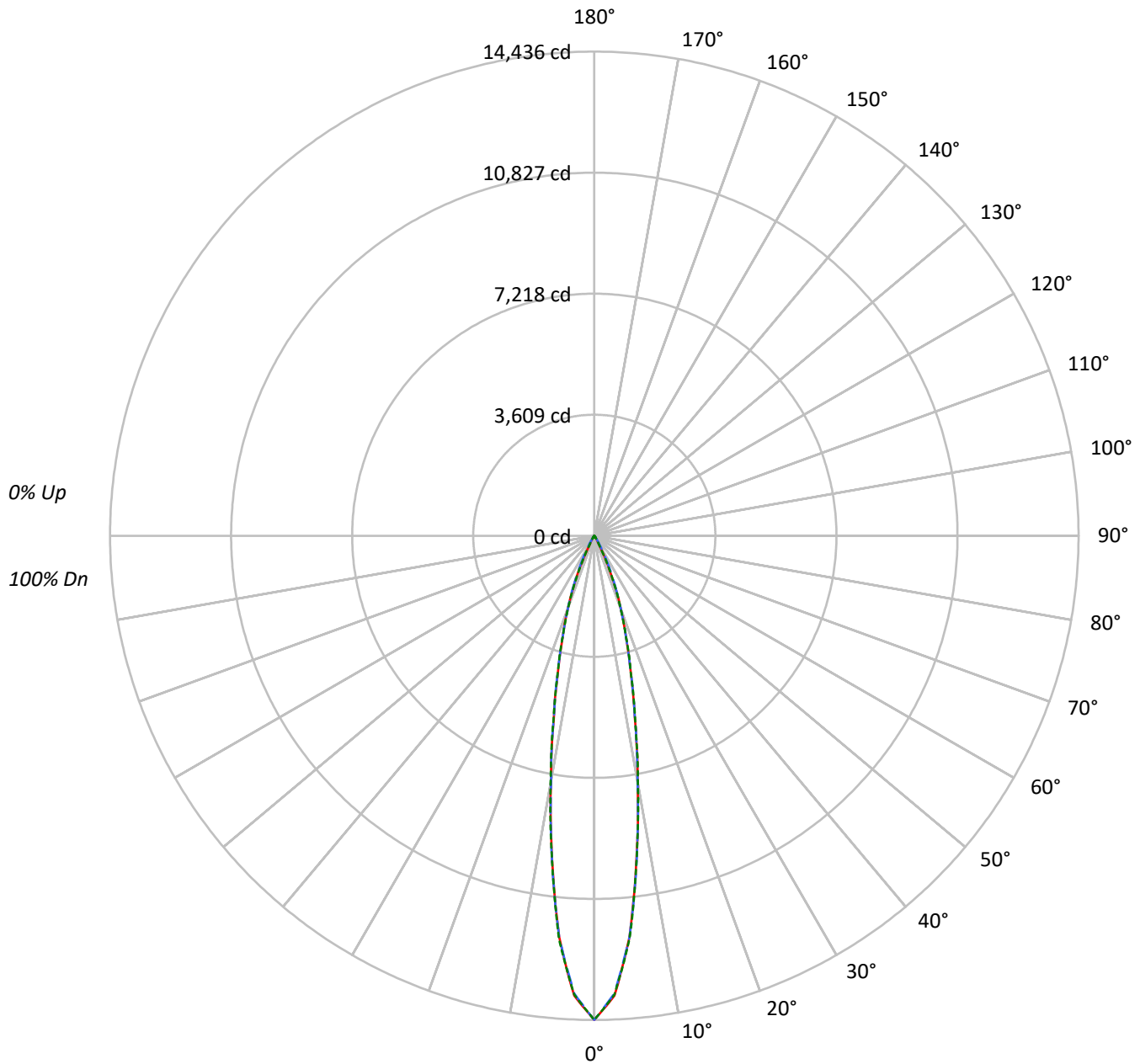
Lumens per Lamp: N/A
Luminaire Lumens: 2737.7 lumens
Efficiency: N/A
Efficacy: 57.4 lumens/watt
Spacing Criteria (0/90/45): 0.35 / 0.35 / 0.39
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	115	113	111	109	113	111	109	108	107	106	104	103	102	101	100	99	98	97		
2	111	108	105	102	109	106	104	101	103	101	99	100	99	97	98	96	95	94		
3	108	103	100	97	106	102	99	96	100	97	95	97	95	93	95	93	92	91		
4	105	99	96	93	103	98	95	92	96	93	91	95	92	90	93	91	89	88		
5	102	96	92	89	100	95	91	88	93	90	88	92	89	87	91	88	86	85		
6	99	93	89	86	98	92	88	85	91	87	85	89	87	84	88	86	84	83		
7	96	90	86	83	95	89	85	83	88	85	82	87	84	82	86	83	81	80		
8	94	87	83	80	93	87	83	80	86	82	80	85	82	80	84	81	79	78		
9	91	85	81	78	90	84	80	78	83	80	78	83	80	77	82	79	77	76		
10	89	82	78	76	88	82	78	76	81	78	75	81	78	75	80	77	75	74		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1398445	1398445	1398445
5°	1167607	1167607	1173150
10°	731469	729826	737223
15°	417429	419796	420498
20°	236330	235608	234608
25°	88708	114715	90643
30°	18189	38402	18345
35°	7238	12489	7072
40°	3693	5451	3528
45°	2480	2863	2096
50°	1462	1462	1040
55°	709	929	473
60°	543	543	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°	997.5	36.4
10°-20°	1186.3	43.3
20°-30°	473.0	17.3
30°-40°	59.7	2.2
40°-50°	14.7	0.5
50°-60°	4.3	0.2
60°-70°	1.6	0.1
70°-80°	0.6	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°	2656.8	97.0
0°-40°	2716.4	99.2
0°-60°	2735.5	99.9
0°-90°	2737.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2737.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	14436	14436	14436	14436	14436	
5°	12007	12117	12007	12018	12064	995
15°	4162	4187	4186	4186	4193	1183
25°	830	1019	1073	977	848	427
35°	61	74	106	71	60	45
45°	18	18	21	17	15	14
55°	4	4	6	4	3	5
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°	14435.5	14435.5	14435.5	14435.5	14435.5
2.5°	13726.4	13800.1	13658.4	13672.2	13690.3
5°	12006.8	12116.7	12006.8	12018.0	12063.8
7.5°	9661.6	9757.5	9695.0	9722.8	9672.7
10°	7435.9	7470.7	7419.2	7444.3	7494.4
12.5°	5591.2	5630.1	5592.7	5594.0	5616.3
15°	4162.1	4187.2	4185.7	4185.7	4192.7
17.5°	3108.4	3141.8	3105.6	3108.4	3116.7
20°	2292.4	2314.6	2285.4	2281.2	2275.7
22.5°	1564.0	1611.3	1629.2	1605.6	1530.5
25°	829.9	1019.0	1073.2	977.3	848.0
27.5°	333.6	507.5	626.9	496.3	362.8
30°	162.6	221.0	343.3	226.5	164.0
32.5°	95.9	119.6	187.6	118.1	94.5
35°	61.2	73.7	105.6	71.0	59.8
37.5°	40.4	48.6	65.3	47.3	38.9
40°	29.2	33.4	43.1	31.9	27.9
42.5°	22.2	23.7	29.2	23.7	20.9
45°	18.1	18.1	20.9	16.7	15.3
47.5°	13.9	13.9	13.9	12.5	9.7
50°	9.7	9.7	9.7	8.2	6.9
52.5°	6.9	6.9	6.9	5.5	4.2
55°	4.2	4.2	5.5	4.2	2.8
57.5°	4.2	2.8	4.2	2.8	2.8
60°	2.8	2.8	2.8	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	1.5
72.5°	1.5	1.5	1.5	1.5	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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