

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: P1212359

Luminaire Tested: **LDSQA4A35930D010TE 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: P1212359
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: LDSQA4A35930D010TE LAR15SP 4LSQA1H
Description: PORTFOLIO 4" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,
SELF-FLANGED, 15° SPOT
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

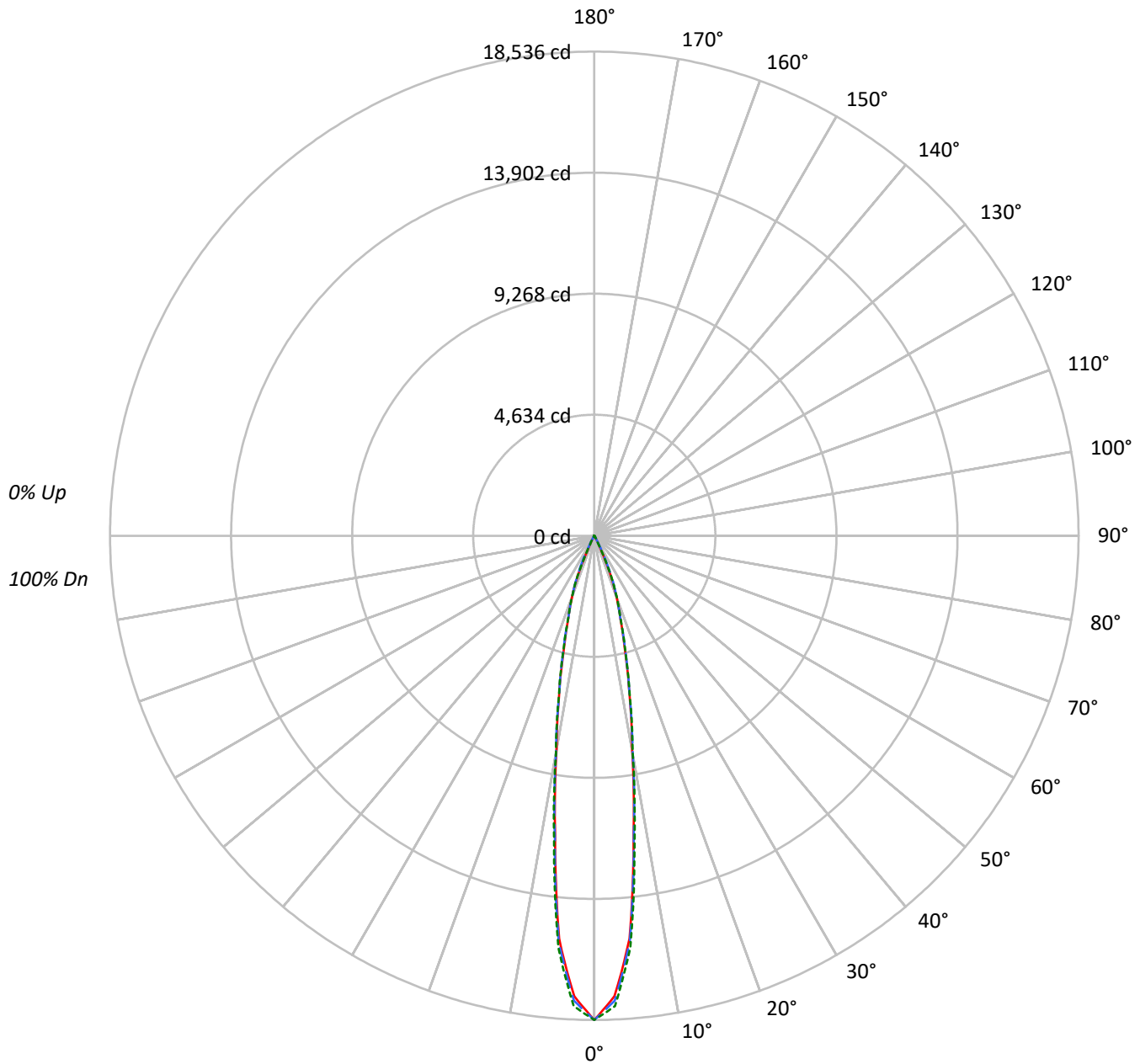
Lumens per Lamp: N/A
Luminaire Lumens: 3043.3 lumens
Efficiency: N/A
Efficacy: 63.8 lumens/watt
Spacing Criteria (0/90/45): 0.32 / 0.32 / 0.36
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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					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	110	113	111	110	108	107	106	105	104	103	102	100	99	99	97		
2	112	108	105	103	110	107	104	102	104	102	100	101	99	98	98	97	96	94		
3	108	104	101	98	107	103	100	97	100	98	96	98	96	94	96	94	93	92		
4	105	100	97	94	104	99	96	93	97	95	92	96	93	91	94	92	90	89		
5	103	97	93	90	101	96	93	90	95	92	89	93	91	89	92	90	88	87		
6	100	94	90	87	99	93	90	87	92	89	87	91	88	86	90	87	86	85		
7	97	91	88	85	96	91	87	85	90	87	84	89	86	84	88	85	83	82		
8	95	89	85	82	94	88	85	82	88	84	82	87	84	82	86	83	81	80		
9	93	87	83	80	92	86	83	80	85	82	80	85	82	80	84	81	79	79		
10	91	84	81	78	90	84	81	78	83	80	78	83	80	78	82	80	78	77		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1795702	1795702	1795702
5°	1505097	1517827	1539902
10°	818831	830999	834157
15°	452802	460093	461838
20°	256402	257165	258649
25°	69960	109605	68720
30°	11231	17081	10907
35°	3784	6374	3607
40°	1657	2580	1657
45°	986	1192	795
50°	648	648	437
55°	490	490	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°	1235.5	40.6
10°-20°	1306.6	42.9
20°-30°	459.7	15.1
30°-40°	31.0	1.0
40°-50°	6.4	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°	3001.8	98.6
0°-40°	3032.7	99.7
0°-60°	3041.3	99.9
0°-90°	3043.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3043.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	18536	18536	18536	18536	18536	
5°	15477	15710	15608	15637	15835	1221
15°	4515	4590	4588	4577	4605	1294
25°	654	993	1025	978	643	405
35°	32	39	54	39	30	25
45°	7	7	9	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°	18536.2	18536.2	18536.2	18536.2	18536.2
2.5°	17646.0	17877.3	17819.0	17781.3	18024.1
5°	15477.3	15710.0	15608.2	15637.4	15835.2
7.5°	11506.6	11702.8	11598.2	11641.7	11793.2
10°	8324.0	8519.0	8447.7	8471.0	8479.8
12.5°	6206.4	6292.2	6235.4	6251.5	6280.6
15°	4514.8	4590.5	4587.5	4577.3	4604.9
17.5°	3313.4	3349.8	3313.4	3311.9	3330.8
20°	2487.1	2538.1	2494.5	2500.2	2508.9
22.5°	1671.3	1773.0	1755.6	1733.8	1710.5
25°	654.5	993.4	1025.4	977.5	642.9
27.5°	187.6	309.8	440.7	303.9	181.8
30°	100.4	119.3	152.7	116.4	97.5
32.5°	53.9	68.3	87.2	66.9	52.3
35°	32.0	39.3	53.9	39.3	30.5
37.5°	20.4	24.7	33.5	24.7	20.4
40°	13.1	16.1	20.4	16.1	13.1
42.5°	10.1	11.7	13.1	10.1	8.7
45°	7.2	7.2	8.7	7.2	5.8
47.5°	5.8	5.8	5.8	4.3	4.3
50°	4.3	4.3	4.3	2.9	2.9
52.5°	2.9	2.9	2.9	2.9	2.9
55°	2.9	2.9	2.9	1.5	1.5
57.5°	2.9	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

Scaled Data Report

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— 0°-180° - - 45°-225° - - - 90°-270°

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