

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: P1219462

Luminaire Tested: **LDSQA4A15927D010TE LAR15SP 4LSQAL1H**

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: P1219462
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26796)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDSQA4A15927D010TE LAR15SP 4LSQAL1H
Description: PORTFOLIO 4" SQUARE LENSED ADJUSTABLE, SELF-FLANGED, 15° SPOT
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

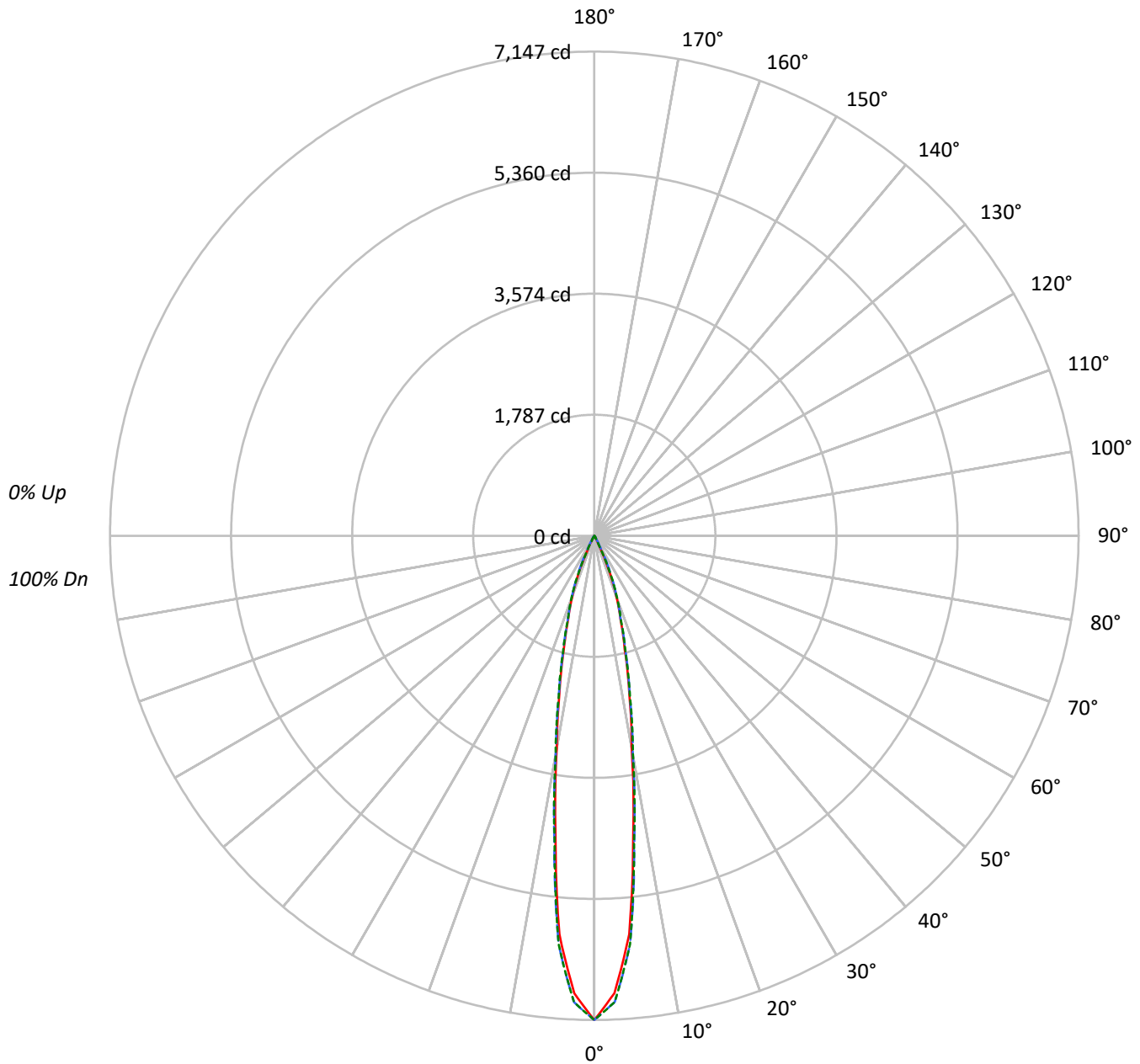
Lumens per Lamp: N/A
Luminaire Lumens: 1192.7 lumens
Efficiency: N/A
Efficacy: 58.5 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.32 / 0.36
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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	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	109	108	107	106	105	103	102	102	100	99	99	97		
2	112	108	105	103	110	107	104	102	103	101	100	101	99	98	98	97	96	94		
3	108	104	100	98	107	103	99	97	100	98	95	98	96	94	96	94	93	91		
4	105	100	96	94	104	99	96	93	97	94	92	95	93	91	94	92	90	89		
5	102	97	93	90	101	96	92	90	94	91	89	93	90	88	92	89	87	86		
6	100	94	90	87	98	93	89	87	92	89	86	91	88	86	89	87	85	84		
7	97	91	87	84	96	90	87	84	89	86	84	88	85	83	87	85	83	82		
8	95	88	85	82	94	88	84	82	87	84	81	86	83	81	85	83	81	80		
9	92	86	82	80	92	86	82	80	85	82	79	84	81	79	84	81	79	78		
10	90	84	80	78	89	84	80	78	83	80	77	82	79	77	82	79	77	76		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	692407	692407	692407
5°	574332	589201	588364
10°	312954	322191	323814
15°	174008	178993	179915
20°	98103	100886	102155
25°	29534	43504	29395
30°	5560	7965	5560
35°	2401	3702	2472
40°	1163	1935	1163
45°	754	1000	589
50°	467	558	286
55°	321	321	203
60°	233	116	116
65°	138	138	138
70°	0	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°	475.9	39.9
10°-20°	507.2	42.5
20°-30°	185.0	15.5
30°-40°	17.6	1.5
40°-50°	4.9	0.4
50°-60°	1.5	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°	1168.1	97.9
0°-40°	1185.7	99.4
0°-60°	1192.0	99.9
0°-90°	1192.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1192.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7147	7147	7147	7147	7147	
5°	5906	6055	6059	5996	6050	467
15°	1735	1776	1785	1781	1794	496
25°	276	400	407	403	275	159
35°	20	25	31	25	21	14
45°	6	6	7	6	4	4
55°	2	2	2	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	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7147.4	7147.4	7147.4	7147.4	7147.4
2.5°	6757.5	6900.0	6889.5	6857.6	6889.5
5°	5906.0	6055.2	6058.9	5995.6	6050.3
7.5°	4390.3	4505.6	4525.9	4463.9	4505.0
10°	3181.4	3284.5	3275.3	3263.0	3291.8
12.5°	2376.5	2428.7	2423.2	2436.7	2438.6
15°	1735.0	1776.1	1784.7	1781.0	1793.9
17.5°	1277.6	1299.7	1295.4	1302.1	1307.1
20°	951.6	986.6	978.6	984.8	990.9
22.5°	631.1	695.6	687.6	697.5	691.9
25°	276.3	399.7	407.0	403.3	275.0
27.5°	84.7	143.1	183.5	140.0	84.7
30°	49.7	59.6	71.2	58.3	49.7
32.5°	31.3	37.4	44.8	36.8	30.7
35°	20.3	24.6	31.3	24.6	20.9
37.5°	13.5	16.5	22.1	16.5	14.2
40°	9.2	11.1	15.3	11.7	9.2
42.5°	6.7	8.0	10.4	8.0	6.1
45°	5.5	5.5	7.3	5.5	4.3
47.5°	4.3	4.3	5.0	3.7	3.1
50°	3.1	3.1	3.7	2.5	1.9
52.5°	1.9	2.5	2.5	1.9	1.2
55°	1.9	1.9	1.9	1.2	1.2
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°	0.0	0.6	0.6	0.0	0.0
72.5°	0.0	0.6	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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