

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: P1219510

Luminaire Tested: **LDSQA4A15940D010TE LAR35FL 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: P1219510
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26795)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDSQA4A15940D010TE LAR35FL 4LSQA1H
Description: PORTFOLIO 4" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,
SELF-FLANGED, 35° FLOOD
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

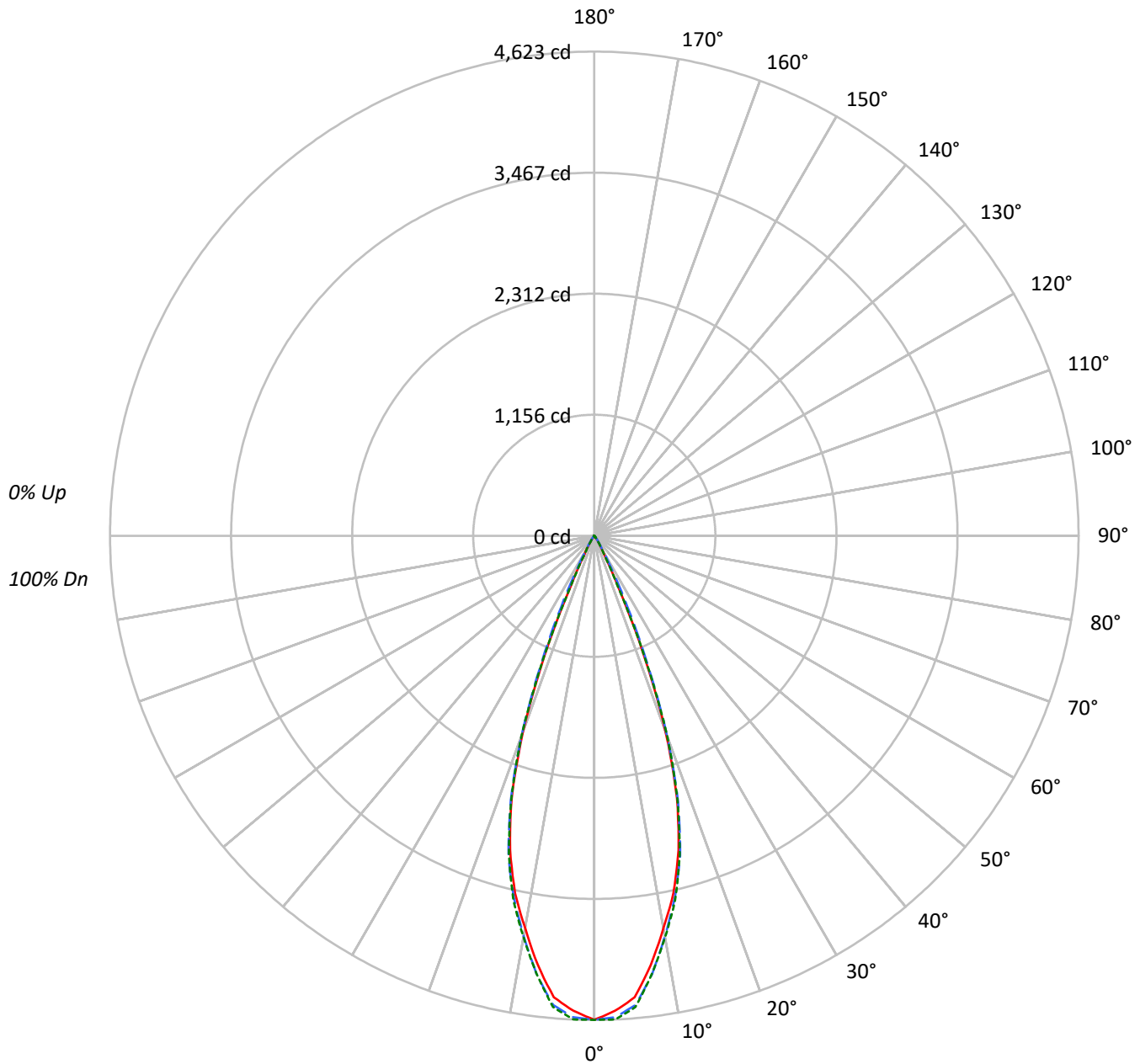
Lumens per Lamp: N/A
Luminaire Lumens: 1646.8 lumens
Efficiency: N/A
Efficacy: 80.7 lumens/watt
Spacing Criteria (0/90/45): 0.62 / 0.63 / 0.57
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	115	113	111	109	112	110	109	107	107	105	104		103	102	101		99
2	111	107	104	101	109	105	103	100	102	100	98		99	98	96		97
3	107	102	98	95	105	101	97	95	98	96	93		96	94	92		94
4	103	98	94	91	102	97	93	90	95	92	89		93	90	88		91
5	100	94	90	86	99	93	89	86	91	88	85		90	87	85		88
6	97	90	86	83	96	90	85	82	88	85	82		87	84	81		86
7	94	87	83	79	93	86	82	79	85	82	79		84	81	79		83
8	91	84	80	77	90	83	79	76	82	79	76		82	78	76		81
9	88	81	77	74	87	81	77	74	80	76	73		79	76	73		78
10	86	78	74	71	85	78	74	71	77	74	71		77	73	71		76

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	447700	447700	447700
5°	430214	437439	439209
10°	374101	381744	382856
15°	311620	317447	316043
20°	204763	209381	209680
25°	56801	79858	55904
30°	13636	17305	13860
35°	3643	6292	3560
40°	1328	2390	1239
45°	685	863	575
50°	422	422	316
55°	236	236	118
60°	271	136	136
65°	160	160	160
70°	198	198	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	406.1	24.7
10°-20°	842.1	51.1
20°-30°	359.7	21.8
30°-40°	31.8	1.9
40°-50°	4.7	0.3
50°-60°	1.3	0.1
60°-70°	0.7	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°	1607.9	97.6
0°-40°	1639.7	99.6
0°-60°	1645.7	99.9
0°-90°	1646.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1646.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4621	4621	4621	4621	4621	
5°	4424	4460	4498	4491	4516	401
15°	3107	3137	3165	3142	3151	833
25°	531	724	747	715	523	326
35°	31	38	53	38	30	26
45°	5	5	6	5	4	4
55°	1	1	1	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°	4621.4	4621.4	4621.4	4621.4	4621.4
2.5°	4540.2	4572.4	4601.1	4599.0	4622.9
5°	4424.0	4460.4	4498.3	4491.2	4516.5
7.5°	4134.1	4171.3	4220.3	4201.4	4218.2
10°	3803.0	3842.2	3880.7	3868.8	3892.0
12.5°	3492.9	3515.3	3543.3	3541.2	3565.7
15°	3107.1	3137.2	3165.2	3142.2	3151.2
17.5°	2624.0	2636.0	2657.0	2633.8	2640.1
20°	1986.2	2019.1	2031.0	2004.5	2033.9
22.5°	1242.7	1321.8	1328.1	1314.1	1270.0
25°	531.4	723.9	747.1	714.8	523.0
27.5°	214.9	274.4	355.7	268.9	209.3
30°	121.9	132.4	154.7	130.2	123.9
32.5°	58.1	74.2	88.9	72.1	58.8
35°	30.8	38.5	53.2	37.8	30.1
37.5°	17.5	22.4	32.2	21.0	17.5
40°	10.5	13.3	18.9	12.6	9.8
42.5°	7.0	8.4	10.5	7.7	6.3
45°	5.0	5.0	6.3	5.0	4.2
47.5°	3.5	3.5	4.2	2.8	2.8
50°	2.8	2.8	2.8	2.1	2.1
52.5°	2.1	2.1	2.1	1.4	1.4
55°	1.4	1.4	1.4	1.4	0.7
57.5°	1.4	1.4	1.4	0.7	0.7
60°	1.4	1.4	0.7	0.7	0.7
62.5°	0.7	0.7	0.7	0.7	0.7
65°	0.7	0.7	0.7	0.7	0.7
67.5°	0.7	0.7	0.7	0.7	0.7
70°	0.7	0.7	0.7	0.7	0.0
72.5°	0.7	0.7	0.7	0.7	0.7
75°	0.0	0.7	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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