

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: P1212355

Luminaire Tested: **LDSQA4A35927D010TE LAR35FL 4LSQAL1H**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P1212355
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26798)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDSQA4A35927D010TE LAR35FL 4LSQAL1H
Description: PORTFOLIO 4" SQUARE LENSED ADJUSTABLE, SELF-FLANGED, 35° FLOOD
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

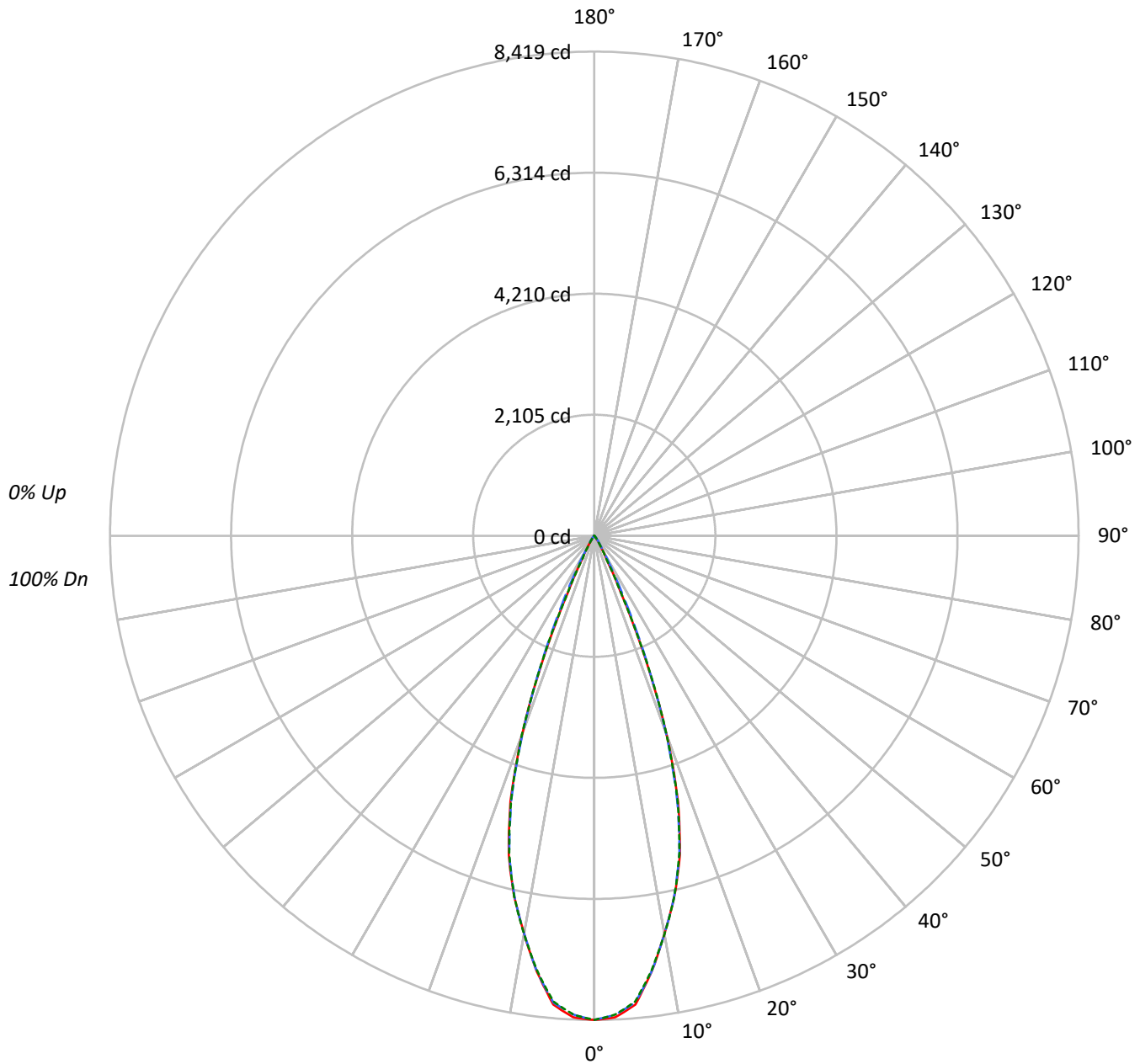
Lumens per Lamp: N/A
Luminaire Lumens: 3036.6 lumens
Efficiency: N/A
Efficacy: 63.7 lumens/watt
Spacing Criteria (0/90/45): 0.63 / 0.63 / 0.57
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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
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		106	105	104			103	102	101			99
2	111	107	104	101	109	105	102	100		102	100	98			99	97	96			97
3	107	102	98	95	105	101	97	94		98	95	93			96	94	92			94
4	103	98	93	90	102	97	93	90		95	91	89			93	90	88			91
5	100	94	89	86	98	93	89	86		91	88	85			90	87	84			88
6	97	90	86	82	95	89	85	82		88	84	82			87	83	81			85
7	94	87	82	79	92	86	82	79		85	81	78			84	81	78			83
8	91	84	79	76	90	83	79	76		82	78	76			81	78	75			80
9	88	81	76	73	87	80	76	73		79	76	73			79	75	73			78
10	85	78	74	71	84	78	73	71		77	73	71			76	73	70			76

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	815614	815614	815614
5°	795876	792366	790868
10°	691147	690999	691826
15°	576493	573434	573143
20°	378144	375134	378433
25°	115634	146247	115185
30°	28928	35002	28312
35°	9366	14464	9213
40°	4401	6854	3870
45°	2288	2863	1713
50°	1236	1462	829
55°	709	929	473
60°	543	543	543
65°	344	344	344
70°	425	425	425
75°	0	561	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	739.6	24.4
10°-20°	1532.6	50.5
20°-30°	669.3	22.0
30°-40°	73.0	2.4
40°-50°	15.1	0.5
50°-60°	4.2	0.1
60°-70°	1.8	0.1
70°-80°	1.1	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°	2941.4	96.9
0°-40°	3014.5	99.3
0°-60°	3033.7	99.9
0°-90°	3036.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3036.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8419	8419	8419	8419	8419	
5°	8184	8162	8148	8169	8133	741
15°	5748	5723	5718	5726	5715	1538
25°	1082	1333	1368	1346	1078	626
35°	79	95	122	93	78	62
45°	17	18	21	15	12	14
55°	4	4	6	3	3	4
65°	2	2	2	2	2	2
75°	0	2	2	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°	8419.2	8419.2	8419.2	8419.2	8419.2
2.5°	8381.6	8351.1	8334.4	8370.5	8334.4
5°	8184.2	8161.9	8148.1	8168.8	8132.7
7.5°	7643.2	7621.1	7640.5	7640.5	7622.5
10°	7026.0	7013.5	7024.5	7053.8	7032.9
12.5°	6426.6	6416.9	6421.2	6451.7	6428.1
15°	5748.1	5723.1	5717.6	5725.9	5714.7
17.5°	4844.4	4806.8	4783.3	4802.7	4808.2
20°	3668.0	3668.0	3638.8	3655.5	3670.8
22.5°	2345.8	2399.9	2405.6	2402.6	2392.9
25°	1081.8	1333.4	1368.2	1345.9	1077.6
27.5°	437.9	540.9	673.1	557.5	422.7
30°	258.6	272.5	312.9	268.3	253.1
32.5°	136.3	164.1	191.8	162.6	132.1
35°	79.2	94.6	122.3	93.1	77.9
37.5°	51.5	59.8	82.0	59.8	48.6
40°	34.8	38.9	54.2	37.6	30.6
42.5°	23.7	26.4	34.8	23.7	19.4
45°	16.7	18.1	20.9	15.3	12.5
47.5°	11.2	12.5	13.9	9.7	8.2
50°	8.2	8.2	9.7	6.9	5.5
52.5°	5.5	6.9	6.9	4.2	4.2
55°	4.2	4.2	5.5	2.8	2.8
57.5°	4.2	4.2	4.2	2.8	2.8
60°	2.8	2.8	2.8	2.8	2.8
62.5°	1.5	2.8	2.8	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	1.5
75°	0.0	1.5	1.5	0.0	0.0
77.5°	0.0	1.5	1.5	1.5	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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