

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: P1212257

Luminaire Tested: **LDSQA4A25930D010TE LAR35FL 4LSQAL1H**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P1212257
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: LDSQA4A25930D010TE LAR35FL 4LSQAL1H
Description: PORTFOLIO 4" SQUARE LENSED ADJUSTABLE, SELF-FLANGED, 35° FLOOD
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

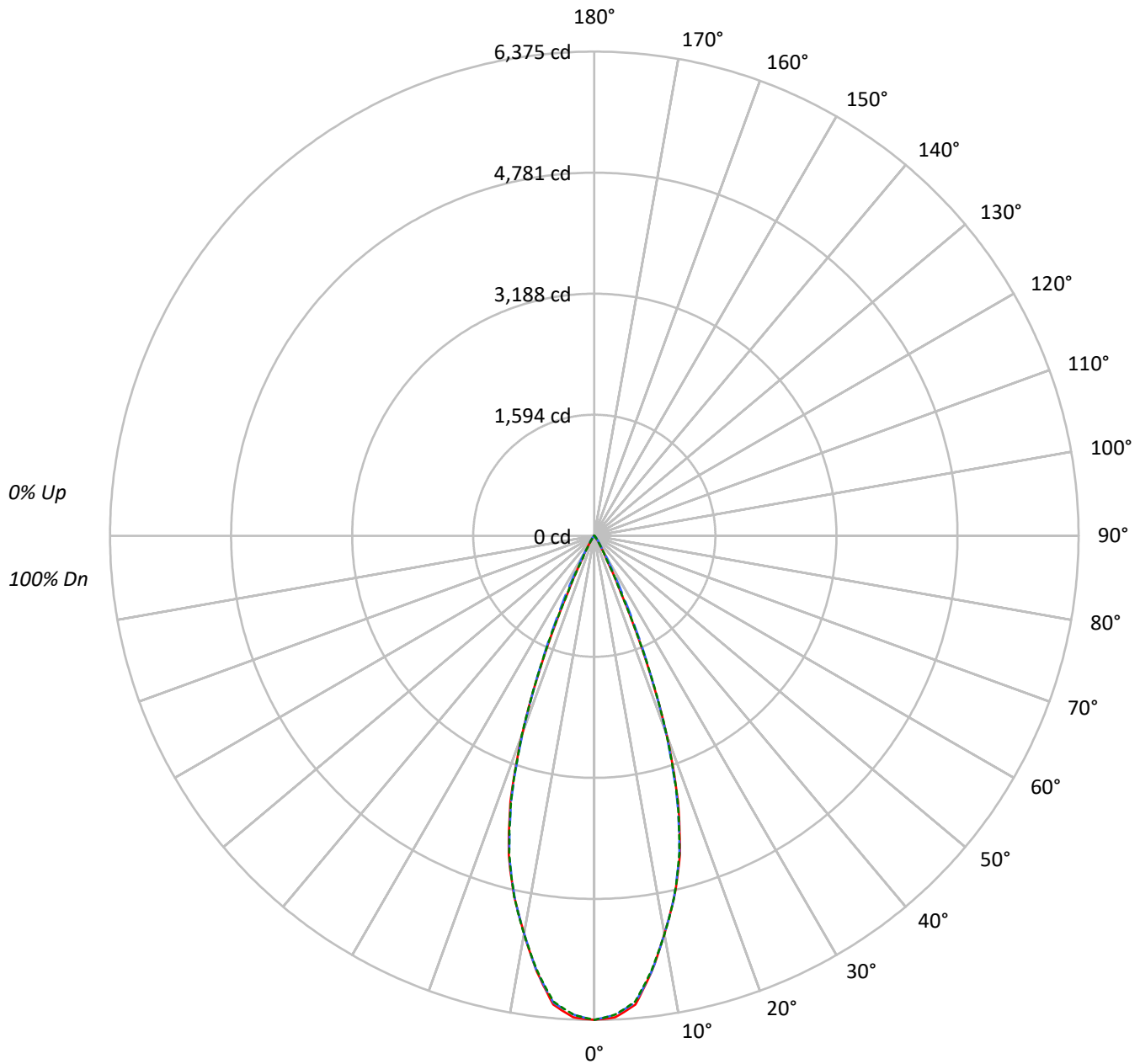
Lumens per Lamp: N/A
Luminaire Lumens: 2299.3 lumens
Efficiency: N/A
Efficacy: 74.4 lumens/watt
Spacing Criteria (0/90/45): 0.63 / 0.63 / 0.57
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 30.9
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



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

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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°	617591	617591	617591
5°	602640	599975	598857
10°	523338	523229	523859
15°	436525	434208	433997
20°	286330	284062	286556
25°	87564	110738	87222
30°	21903	26500	21433
35°	7096	10951	6978
40°	3326	5198	2934
45°	1740	2165	1302
50°	949	1115	633
55°	524	709	355
60°	407	407	407
65°	252	252	252
70°	312	312	312
75°	0	412	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	560.0	24.4
10°-20°	1160.5	50.5
20°-30°	506.8	22.0
30°-40°	55.3	2.4
40°-50°	11.4	0.5
50°-60°	3.1	0.1
60°-70°	1.3	0.1
70°-80°	0.8	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°	2227.3	96.9
0°-40°	2282.6	99.3
0°-60°	2297.2	99.9
0°-90°	2299.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2299.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6375	6375	6375	6375	6375	
5°	6197	6180	6170	6186	6158	561
15°	4352	4334	4329	4336	4327	1164
25°	819	1010	1036	1019	816	474
35°	60	72	93	71	59	47
45°	13	14	16	12	10	10
55°	3	3	4	2	2	3
65°	1	1	1	1	1	1
75°	0	1	1	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6375.1	6375.1	6375.1	6375.1	6375.1
2.5°	6346.6	6323.5	6310.9	6338.3	6310.9
5°	6197.1	6180.3	6169.7	6185.5	6158.2
7.5°	5787.6	5770.8	5785.5	5785.5	5771.8
10°	5320.1	5310.7	5319.0	5341.2	5325.4
12.5°	4866.3	4859.0	4862.1	4885.3	4867.4
15°	4352.5	4333.5	4329.4	4335.7	4327.3
17.5°	3668.2	3639.8	3621.9	3636.6	3640.8
20°	2777.4	2777.4	2755.4	2767.9	2779.6
22.5°	1776.2	1817.2	1821.5	1819.4	1812.0
25°	819.2	1009.7	1036.0	1019.2	816.0
27.5°	331.7	409.6	509.6	422.2	320.1
30°	195.8	206.3	236.9	203.2	191.6
32.5°	103.2	124.2	145.3	123.1	100.0
35°	60.0	71.6	92.6	70.6	59.0
37.5°	39.0	45.3	62.1	45.3	36.9
40°	26.3	29.5	41.1	28.5	23.2
42.5°	17.9	19.9	26.3	17.9	14.7
45°	12.7	13.7	15.8	11.6	9.5
47.5°	8.4	9.5	10.6	7.4	6.3
50°	6.3	6.3	7.4	5.2	4.2
52.5°	4.2	5.2	5.2	3.1	3.1
55°	3.1	3.1	4.2	2.1	2.1
57.5°	3.1	3.1	3.1	2.1	2.1
60°	2.1	2.1	2.1	2.1	2.1
62.5°	1.1	2.1	2.1	1.1	1.1
65°	1.1	1.1	1.1	1.1	1.1
67.5°	1.1	1.1	1.1	1.1	1.1
70°	1.1	1.1	1.1	1.1	1.1
72.5°	1.1	1.1	1.1	1.1	1.1
75°	0.0	1.1	1.1	0.0	0.0
77.5°	0.0	1.1	1.1	1.1	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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