

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: P182600

Luminaire Tested: **LDSQA4A28835D010TE LAR35FL 4LSQAL1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P182600
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: LDSQA4A28835D010TE LAR35FL 4LSQAL1H
Description: PORTFOLIO 4" SQUARE LENSED ADJUSTABLE, SELF-FLANGED, 35° FLOOD
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2991.4 lumens
Efficiency: N/A
Efficacy: 67.2 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

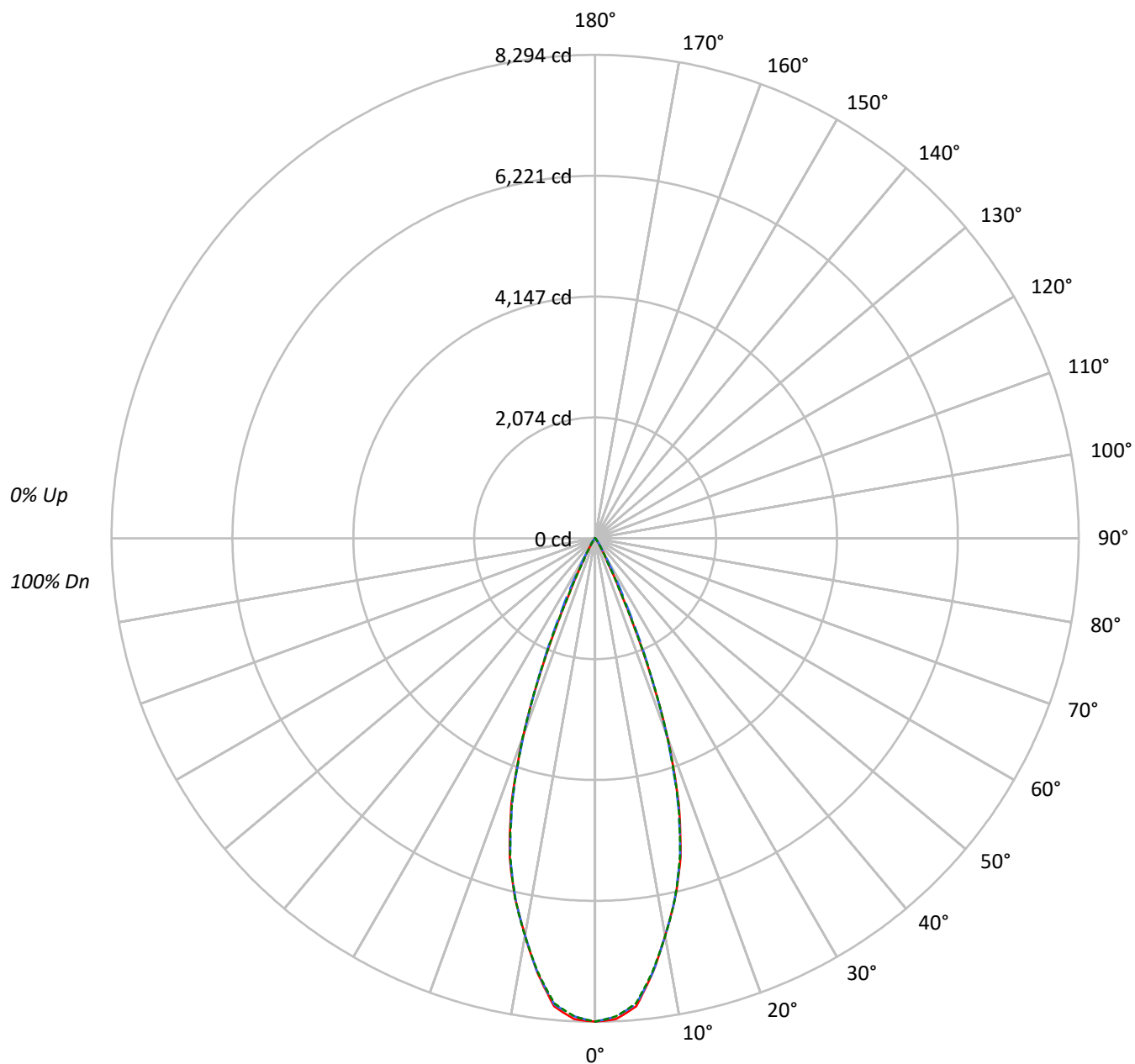
Input Watts (W): 44.49
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96		
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92		
3	107	102	98	95	105	101	97	94	98	95	93	96	94	92	94	92	90	89		
4	103	98	93	90	102	97	93	90	95	91	89	93	90	88	91	89	87	86		
5	100	94	89	86	98	93	89	86	91	88	85	90	87	84	88	86	84	82		
6	97	90	86	82	95	89	85	82	88	84	82	87	83	81	85	83	81	79		
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77		
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74		
9	88	81	76	73	87	80	76	73	79	76	73	79	75	73	78	75	73	72		
10	85	78	74	71	84	78	73	71	77	73	71	76	73	70	76	72	70	69		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	803494	803494	803494
5°	784051	780589	779121
10°	680877	680739	681546
15°	567928	564909	564639
20°	372525	369567	372814
25°	113913	144077	113475
30°	28502	34476	27887
35°	9236	14251	9071
40°	4325	6753	3807
45°	2247	2809	1685
50°	1236	1447	829
55°	692	929	456
60°	523	523	523
65°	321	321	321
70°	397	397	397
75°	0	524	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	728.6	24.4
10°-20°	1509.8	50.5
20°-30°	659.3	22.0
30°-40°	71.9	2.4
40°-50°	14.9	0.5
50°-60°	4.1	0.1
60°-70°	1.7	0.1
70°-80°	1.0	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°	2897.8	96.9
0°-40°	2969.7	99.3
0°-60°	2988.6	99.9
0°-90°	2991.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2991.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8294	8294	8294	8294	8294	
5°	8063	8041	8027	8048	8012	730
15°	5663	5638	5633	5641	5630	1515
25°	1066	1314	1348	1326	1062	617
35°	78	93	120	92	77	62
45°	16	18	20	15	12	14
55°	4	4	6	3	3	4
65°	1	1	1	1	1	2
75°	0	1	1	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°	8294.1	8294.1	8294.1	8294.1	8294.1
2.5°	8257.1	8227.0	8210.6	8246.2	8210.6
5°	8062.6	8040.7	8027.0	8047.6	8011.9
7.5°	7529.8	7507.9	7527.0	7527.0	7509.2
10°	6921.6	6909.3	6920.2	6949.0	6928.4
12.5°	6331.2	6321.6	6325.7	6355.9	6332.6
15°	5662.7	5638.1	5632.6	5640.8	5629.9
17.5°	4772.4	4735.4	4712.1	4731.3	4736.8
20°	3613.5	3613.5	3584.8	3601.2	3616.3
22.5°	2310.8	2364.3	2369.7	2367.0	2357.4
25°	1065.7	1313.6	1347.9	1326.0	1061.6
27.5°	431.5	532.9	663.0	549.3	416.4
30°	254.8	268.5	308.2	264.4	249.3
32.5°	134.2	161.6	189.0	160.3	130.1
35°	78.1	93.1	120.5	91.8	76.7
37.5°	50.7	58.9	80.8	58.9	47.9
40°	34.2	38.4	53.4	37.0	30.1
42.5°	23.3	26.0	34.2	23.3	19.2
45°	16.4	17.8	20.5	15.1	12.3
47.5°	11.0	12.3	13.7	9.6	8.2
50°	8.2	8.2	9.6	6.8	5.5
52.5°	5.5	6.8	6.8	4.1	4.1
55°	4.1	4.1	5.5	2.7	2.7
57.5°	4.1	4.1	4.1	2.7	2.7
60°	2.7	2.7	2.7	2.7	2.7
62.5°	1.4	2.7	2.7	1.4	1.4
65°	1.4	1.4	1.4	1.4	1.4
67.5°	1.4	1.4	1.4	1.4	1.4
70°	1.4	1.4	1.4	1.4	1.4
72.5°	1.4	1.4	1.4	1.4	1.4
75°	0.0	1.4	1.4	0.0	0.0
77.5°	0.0	1.4	1.4	1.4	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



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— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)