

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: P182580

Luminaire Tested: **LDSQA4A18935D010TE LAR35FL 4LSQAL1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P182580
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: LDSQA4A18935D010TE LAR35FL 4LSQAL1H
Description: PORTFOLIO 4" SQUARE LENSED ADJUSTABLE, SELF-FLANGED, 35° FLOOD
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1782.2 lumens
Efficiency: N/A
Efficacy: 61.2 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

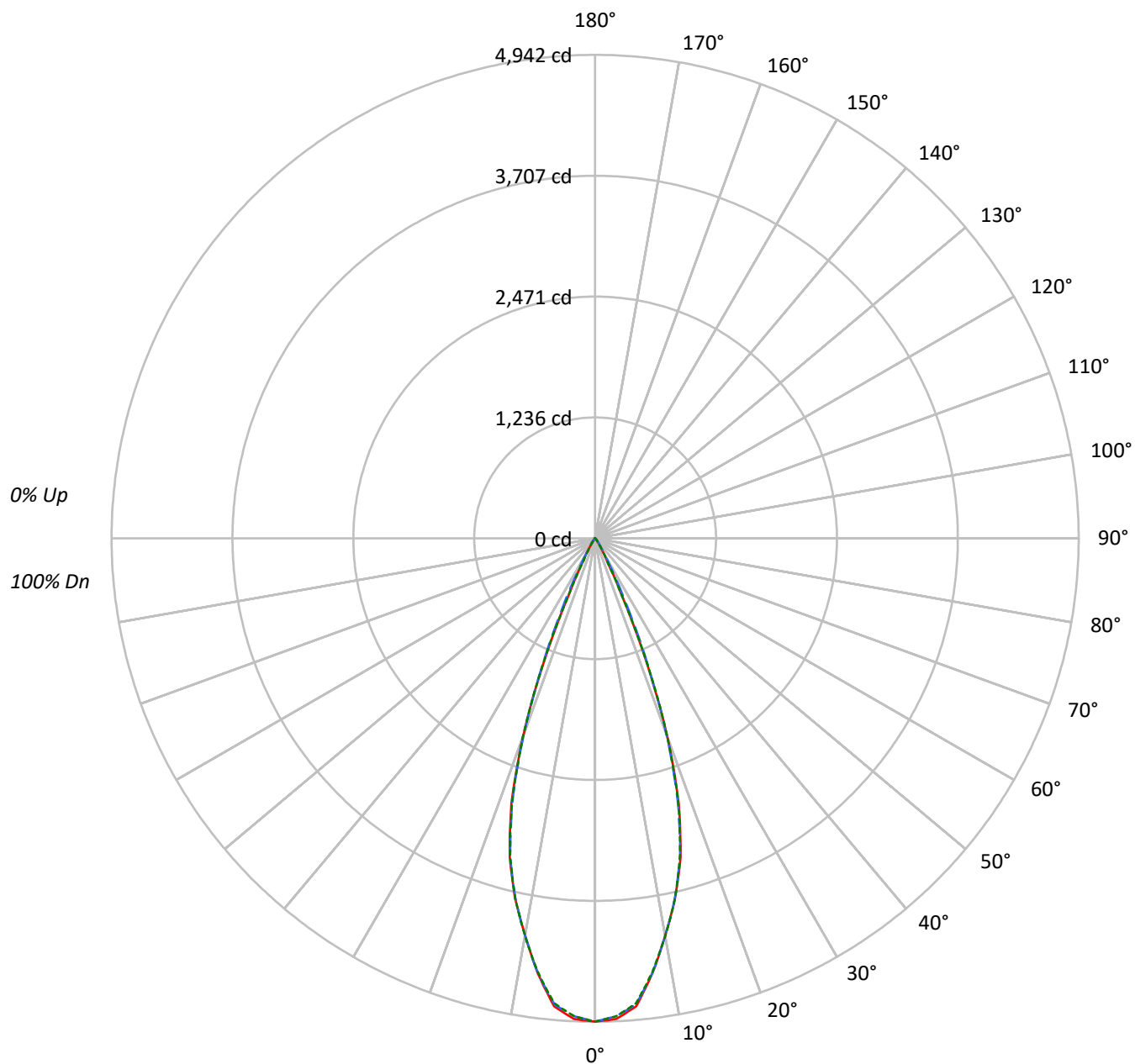
Input Watts (W): 29.12
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	86	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	74	71	77	73	71	76	73	70	76	72	70	69		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	478710	478710	478710
5°	467128	465067	464192
10°	405658	405579	406061
15°	338368	336563	336402
20°	221948	220175	222113
25°	67865	85833	67608
30°	16981	20538	16612
35°	5499	8491	5405
40°	2580	4021	2276
45°	1343	1671	1000
50°	738	859	497
55°	405	557	270
60°	310	310	310
65°	183	183	183
70°	227	227	227
75°	0	299	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	434.1	24.4
10°-20°	899.5	50.5
20°-30°	392.8	22.0
30°-40°	42.9	2.4
40°-50°	8.9	0.5
50°-60°	2.4	0.1
60°-70°	1.0	0.1
70°-80°	0.6	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°	1726.4	96.9
0°-40°	1769.3	99.3
0°-60°	1780.6	99.9
0°-90°	1782.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1782.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4942	4942	4942	4942	4942	
5°	4804	4790	4782	4795	4773	435
15°	3374	3359	3356	3361	3354	903
25°	635	783	803	790	632	367
35°	46	56	72	55	46	37
45°	10	11	12	9	7	8
55°	2	2	3	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°	4941.5	4941.5	4941.5	4941.5	4941.5
2.5°	4919.5	4901.5	4891.7	4912.9	4891.7
5°	4803.6	4790.5	4782.4	4794.6	4773.4
7.5°	4486.1	4473.1	4484.5	4484.5	4473.9
10°	4123.8	4116.4	4123.0	4140.1	4127.9
12.5°	3772.0	3766.3	3768.8	3786.7	3772.9
15°	3373.8	3359.1	3355.8	3360.7	3354.2
17.5°	2843.3	2821.3	2807.4	2818.8	2822.1
20°	2152.9	2152.9	2135.7	2145.5	2154.5
22.5°	1376.8	1408.6	1411.9	1410.2	1404.5
25°	634.9	782.6	803.0	790.0	632.5
27.5°	257.1	317.5	395.0	327.3	248.1
30°	151.8	160.0	183.6	157.5	148.5
32.5°	80.0	96.3	112.6	95.5	77.5
35°	46.5	55.5	71.8	54.7	45.7
37.5°	30.2	35.1	48.2	35.1	28.6
40°	20.4	22.9	31.8	22.0	18.0
42.5°	13.9	15.5	20.4	13.9	11.4
45°	9.8	10.6	12.2	9.0	7.3
47.5°	6.5	7.3	8.2	5.7	4.9
50°	4.9	4.9	5.7	4.1	3.3
52.5°	3.3	4.1	4.1	2.4	2.4
55°	2.4	2.4	3.3	1.6	1.6
57.5°	2.4	2.4	2.4	1.6	1.6
60°	1.6	1.6	1.6	1.6	1.6
62.5°	0.8	1.6	1.6	0.8	0.8
65°	0.8	0.8	0.8	0.8	0.8
67.5°	0.8	0.8	0.8	0.8	0.8
70°	0.8	0.8	0.8	0.8	0.8
72.5°	0.8	0.8	0.8	0.8	0.8
75°	0.0	0.8	0.8	0.0	0.0
77.5°	0.0	0.8	0.8	0.8	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)