

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: P182596

Luminaire Tested: **LDSQA4A13935D010TE LAR35FL 4LSQAL1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P182596
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: LDSQA4A13935D010TE 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: 1430.6 lumens
Efficiency: N/A
Efficacy: 64.2 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

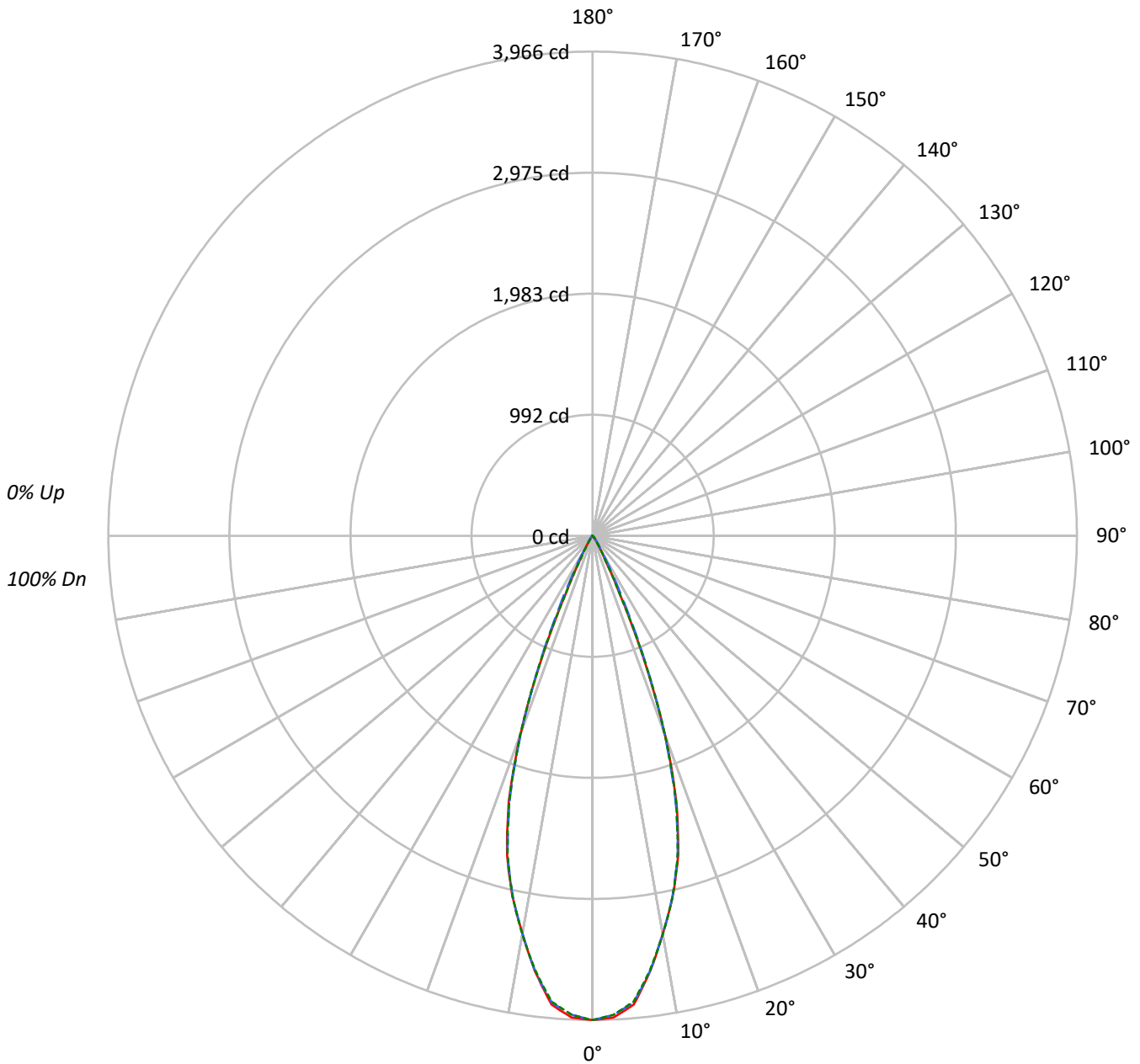
Input Watts (W): 22.27
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
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°	384247	384247	384247
5°	374949	373296	372596
10°	325604	325545	325929
15°	271593	270149	270018
20°	178154	176732	178288
25°	54471	68901	54268
30°	13625	16488	13334
35°	4411	6812	4340
40°	2074	3225	1821
45°	1082	1343	808
50°	588	693	392
55°	338	439	220
60°	252	252	252
65°	160	160	160
70°	198	198	198
75°	0	262	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	348.4	24.4
10°-20°	722.0	50.5
20°-30°	315.3	22.0
30°-40°	34.4	2.4
40°-50°	7.1	0.5
50°-60°	2.0	0.1
60°-70°	0.8	0.1
70°-80°	0.5	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°	1385.8	96.9
0°-40°	1420.2	99.3
0°-60°	1429.2	99.9
0°-90°	1430.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1430.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3966	3966	3966	3966	3966	
5°	3856	3845	3839	3848	3832	349
15°	2708	2696	2694	2698	2692	724
25°	510	628	645	634	508	295
35°	37	44	58	44	37	29
45°	8	8	10	7	6	7
55°	2	2	3	1	1	2
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°	3966.4	3966.4	3966.4	3966.4	3966.4
2.5°	3948.7	3934.3	3926.5	3943.5	3926.5
5°	3855.7	3845.2	3838.7	3848.5	3831.5
7.5°	3600.9	3590.4	3599.6	3599.6	3591.1
10°	3310.0	3304.1	3309.4	3323.1	3313.3
12.5°	3027.7	3023.1	3025.1	3039.5	3028.4
15°	2708.0	2696.2	2693.6	2697.6	2692.3
17.5°	2282.2	2264.6	2253.4	2262.6	2265.2
20°	1728.1	1728.1	1714.3	1722.2	1729.4
22.5°	1105.1	1130.6	1133.3	1131.9	1127.4
25°	509.6	628.2	644.6	634.1	507.7
27.5°	206.3	254.8	317.1	262.7	199.1
30°	121.8	128.4	147.4	126.4	119.2
32.5°	64.2	77.3	90.4	76.6	62.2
35°	37.3	44.5	57.6	43.9	36.7
37.5°	24.2	28.2	38.6	28.2	22.9
40°	16.4	18.3	25.5	17.7	14.4
42.5°	11.1	12.4	16.4	11.1	9.2
45°	7.9	8.5	9.8	7.2	5.9
47.5°	5.2	5.9	6.6	4.6	3.9
50°	3.9	3.9	4.6	3.3	2.6
52.5°	2.6	3.3	3.3	2.0	2.0
55°	2.0	2.0	2.6	1.3	1.3
57.5°	2.0	2.0	2.0	1.3	1.3
60°	1.3	1.3	1.3	1.3	1.3
62.5°	0.7	1.3	1.3	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	0.7
72.5°	0.7	0.7	0.7	0.7	0.7
75°	0.0	0.7	0.7	0.0	0.0
77.5°	0.0	0.7	0.7	0.7	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)