

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: P182584

Luminaire Tested: **LDSQA4A09835D010TE LAR35FL 4LSQAL1H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P182584  
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: LDSQA4A09835D010TE 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: 1183.7 lumens  
Efficiency: N/A  
Efficacy: 85.5 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

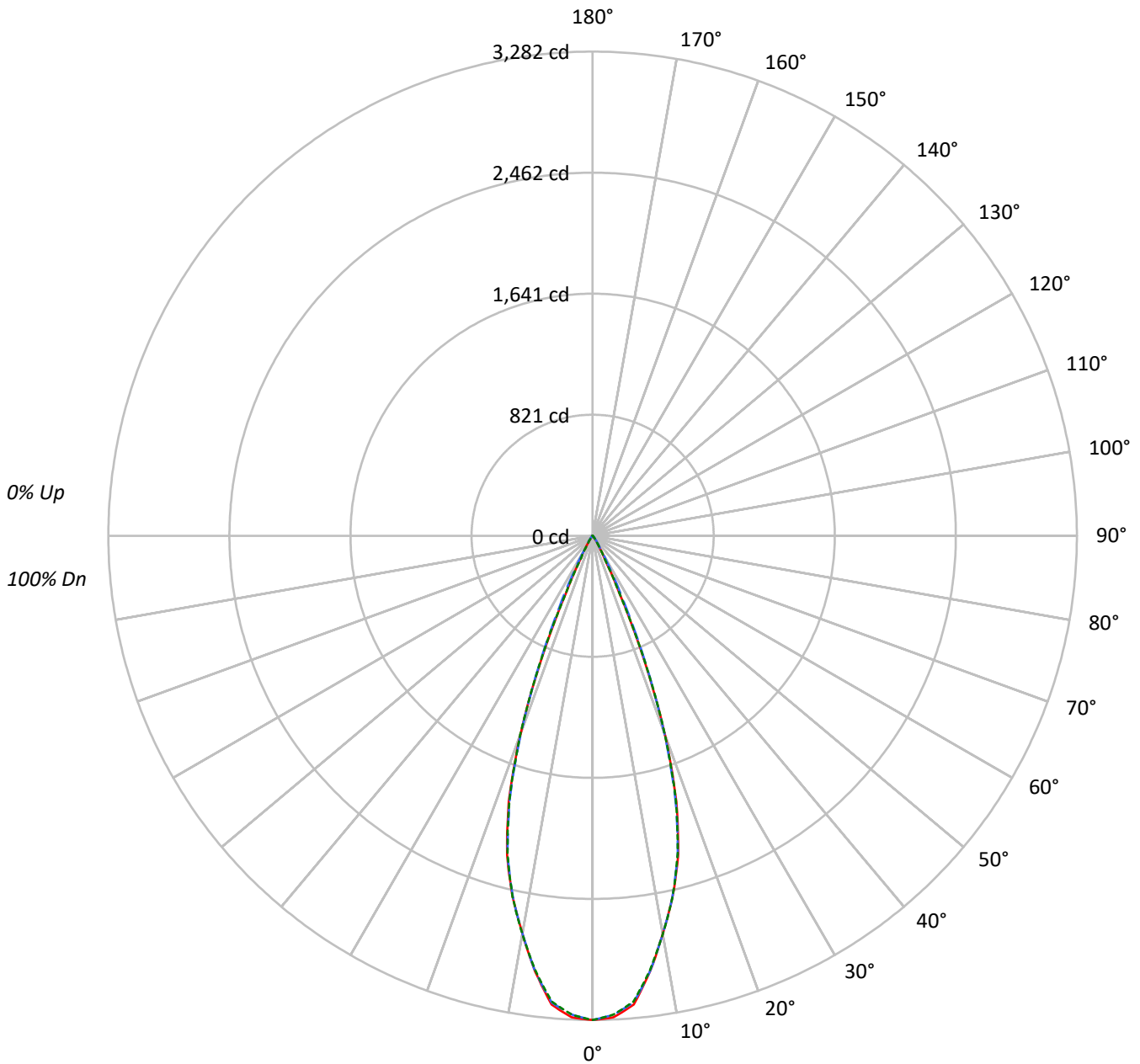
Input Watts (W): 13.84  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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					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	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°	317965	317965	317965
5°	310271	308900	308317
10°	269435	269386	269701
15°	224746	223543	223442
20°	147423	146247	147526
25°	45076	57015	44905
30°	11276	13647	11041
35°	3654	5641	3595
40°	1720	2668	1505
45°	891	1110	671
50°	497	573	332
55°	270	372	186
60°	213	213	213
65°	115	115	115
70°	142	142	142
75°	0	187	0
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	288.3	24.4
10°-20°	597.5	50.5
20°-30°	260.9	22.0
30°-40°	28.5	2.4
40°-50°	5.9	0.5
50°-60°	1.6	0.1
60°-70°	0.6	0.1
70°-80°	0.4	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°	1146.7	96.9
0°-40°	1175.2	99.3
0°-60°	1182.7	99.9
0°-90°	1183.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1183.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3282	3282	3282	3282	3282	
5°	3191	3182	3176	3185	3170	289
15°	2241	2231	2229	2232	2228	599
25°	422	520	533	525	420	244
35°	31	37	48	36	30	24
45°	6	7	8	6	5	5
55°	2	2	2	1	1	2
65°	0	0	0	0	0	1
75°	0	0	0	0	0	0
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°	3282.2	3282.2	3282.2	3282.2	3282.2
2.5°	3267.5	3255.6	3249.1	3263.2	3249.1
5°	3190.6	3181.9	3176.5	3184.6	3170.5
7.5°	2979.7	2971.0	2978.6	2978.6	2971.6
10°	2739.0	2734.1	2738.5	2749.9	2741.7
12.5°	2505.4	2501.6	2503.2	2515.2	2505.9
15°	2240.9	2231.1	2228.9	2232.2	2227.9
17.5°	1888.5	1873.9	1864.7	1872.3	1874.4
20°	1430.0	1430.0	1418.6	1425.1	1431.0
22.5°	914.5	935.6	937.8	936.7	932.9
25°	421.7	519.8	533.4	524.7	420.1
27.5°	170.7	210.9	262.4	217.4	164.8
30°	100.8	106.2	122.0	104.6	98.7
32.5°	53.1	64.0	74.8	63.4	51.5
35°	30.9	36.9	47.7	36.3	30.4
37.5°	20.1	23.3	32.0	23.3	19.0
40°	13.6	15.2	21.1	14.6	11.9
42.5°	9.2	10.3	13.6	9.2	7.6
45°	6.5	7.0	8.1	6.0	4.9
47.5°	4.3	4.9	5.4	3.8	3.3
50°	3.3	3.3	3.8	2.7	2.2
52.5°	2.2	2.7	2.7	1.6	1.6
55°	1.6	1.6	2.2	1.1	1.1
57.5°	1.6	1.6	1.6	1.1	1.1
60°	1.1	1.1	1.1	1.1	1.1
62.5°	0.5	1.1	1.1	0.5	0.5
65°	0.5	0.5	0.5	0.5	0.5
67.5°	0.5	0.5	0.5	0.5	0.5
70°	0.5	0.5	0.5	0.5	0.5
72.5°	0.5	0.5	0.5	0.5	0.5
75°	0.0	0.5	0.5	0.0	0.0
77.5°	0.0	0.5	0.5	0.5	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



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— 0°-180°    - - 45°-225°    - - - - 90°-270°







(END OF REPORT)