

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: P182588

Luminaire Tested: **LDSQA4A09935D010TE LAR35FL 4LSQAL1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P182588
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: LDSQA4A09935D010TE 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: 965.9 lumens
Efficiency: N/A
Efficacy: 69.8 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

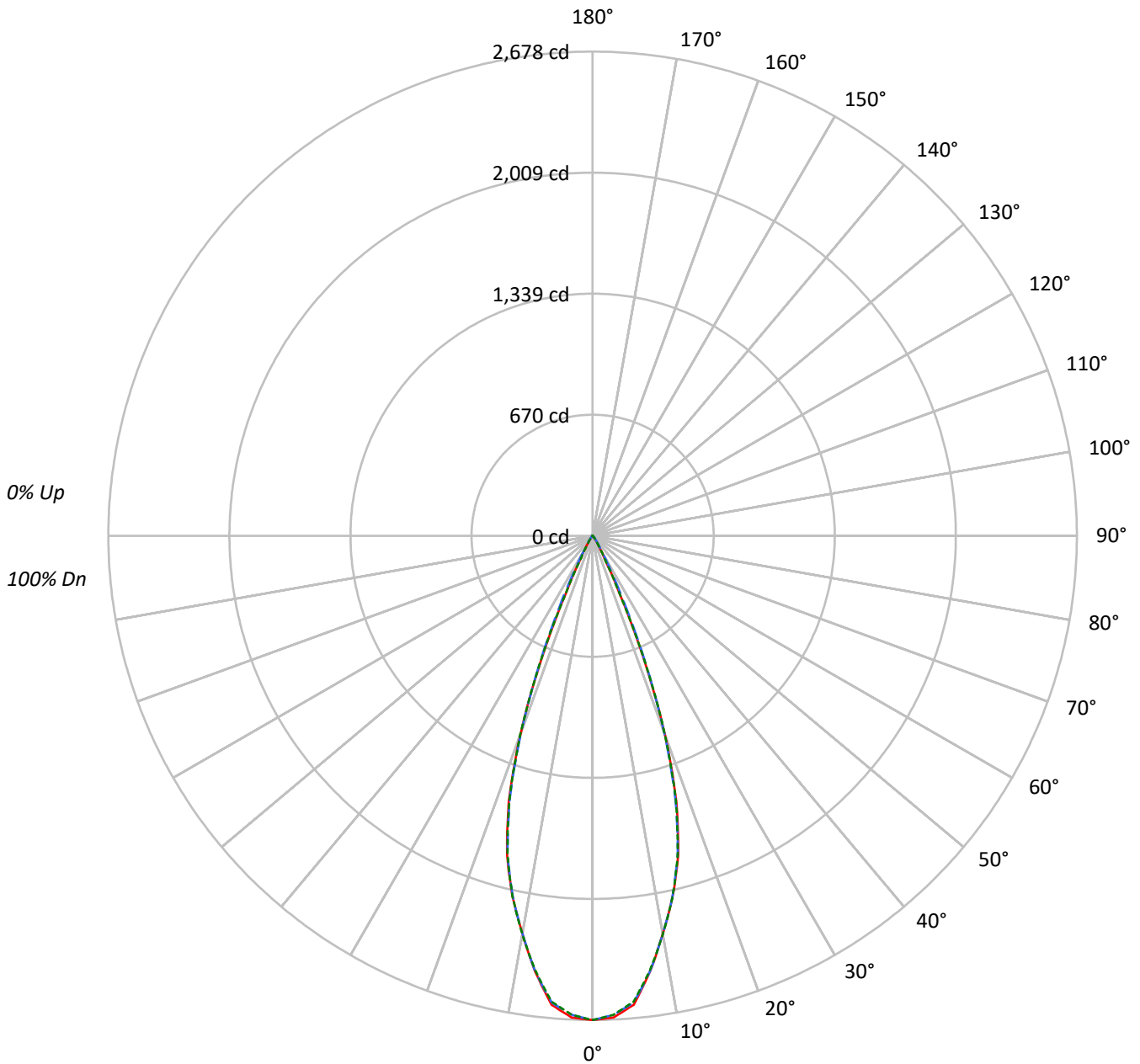
Input Watts (W): 13.84
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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	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°	259461	259461	259461
5°	253188	252070	251593
10°	219867	219827	220083
15°	183395	182423	182332
20°	120299	119340	120392
25°	36781	46529	36642
30°	9206	11130	9005
35°	2980	4600	2933
40°	1404	2188	1227
45°	726	904	548
50°	407	467	271
55°	220	304	152
60°	174	174	174
65°	92	92	92
70°	113	113	113
75°	0	150	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.3	24.4
10°-20°	487.5	50.5
20°-30°	212.9	22.0
30°-40°	23.2	2.4
40°-50°	4.8	0.5
50°-60°	1.3	0.1
60°-70°	0.5	0.1
70°-80°	0.3	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°	935.7	96.9
0°-40°	959.0	99.3
0°-60°	965.1	99.9
0°-90°	965.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	965.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2678	2678	2678	2678	2678	
5°	2604	2596	2592	2599	2587	236
15°	1829	1821	1819	1822	1818	489
25°	344	424	435	428	343	199
35°	25	30	39	30	25	20
45°	5	6	7	5	4	4
55°	1	1	2	1	1	1
65°	0	0	0	0	0	0
75°	0	0	0	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°	2678.3	2678.3	2678.3	2678.3	2678.3
2.5°	2666.4	2656.7	2651.4	2662.9	2651.4
5°	2603.6	2596.5	2592.1	2598.7	2587.2
7.5°	2431.5	2424.4	2430.6	2430.6	2424.9
10°	2235.1	2231.1	2234.7	2244.0	2237.3
12.5°	2044.5	2041.4	2042.7	2052.4	2044.9
15°	1828.6	1820.7	1818.9	1821.5	1818.0
17.5°	1541.1	1529.2	1521.6	1527.8	1529.6
20°	1166.9	1166.9	1157.6	1162.9	1167.8
22.5°	746.2	763.5	765.2	764.4	761.3
25°	344.1	424.2	435.3	428.2	342.8
27.5°	139.3	172.1	214.1	177.4	134.5
30°	82.3	86.7	99.5	85.4	80.5
32.5°	43.3	52.2	61.0	51.8	42.0
35°	25.2	30.1	38.9	29.6	24.8
37.5°	16.4	19.0	26.1	19.0	15.5
40°	11.1	12.4	17.3	11.9	9.7
42.5°	7.5	8.4	11.1	7.5	6.2
45°	5.3	5.8	6.6	4.9	4.0
47.5°	3.5	4.0	4.4	3.1	2.7
50°	2.7	2.7	3.1	2.2	1.8
52.5°	1.8	2.2	2.2	1.3	1.3
55°	1.3	1.3	1.8	0.9	0.9
57.5°	1.3	1.3	1.3	0.9	0.9
60°	0.9	0.9	0.9	0.9	0.9
62.5°	0.4	0.9	0.9	0.4	0.4
65°	0.4	0.4	0.4	0.4	0.4
67.5°	0.4	0.4	0.4	0.4	0.4
70°	0.4	0.4	0.4	0.4	0.4
72.5°	0.4	0.4	0.4	0.4	0.4
75°	0.0	0.4	0.4	0.0	0.0
77.5°	0.0	0.4	0.4	0.4	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)