

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: P182488

Luminaire Tested: **LDSQA4A09835D010TE LAR35FL 4LSQA1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P182488
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26795)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDSQA4A09835D010TE LAR35FL 4LSQA1H
Description: PORTFOLIO 4" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,
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: 1274.7 lumens
Efficiency: N/A
Efficacy: 92.1 lumens/watt
Spacing Criteria (0/90/45): 0.62 / 0.63 / 0.57
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

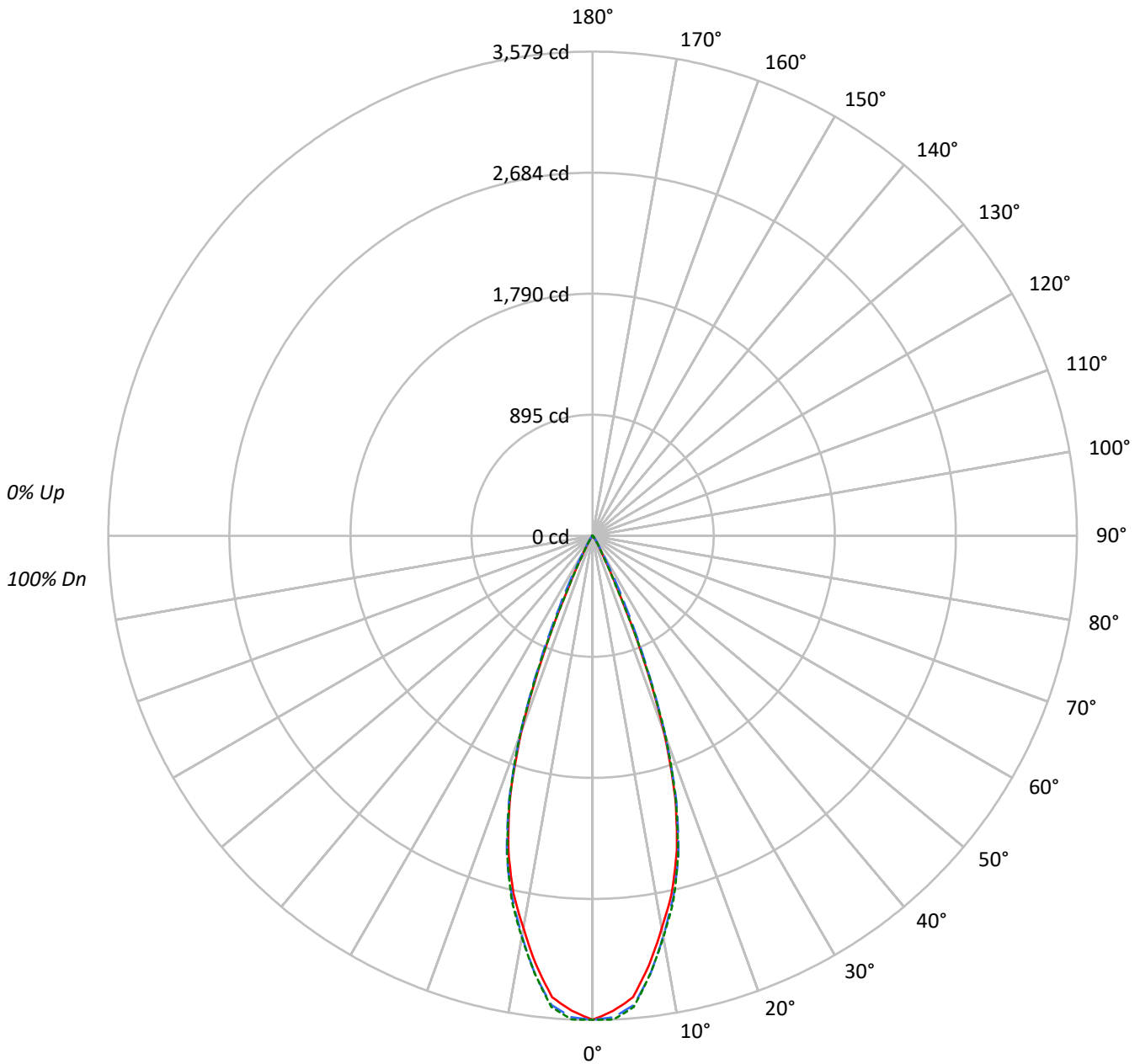
Input Watts (W): 13.84
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	346582	346582	346582
5°	333046	338628	339999
10°	289601	295523	296379
15°	241234	245748	244664
20°	158515	162093	162319
25°	43975	61815	43280
30°	10549	13401	10728
35°	2815	4872	2756
40°	1024	1846	961
45°	521	671	452
50°	332	332	241
55°	186	186	84
60°	213	97	97
65°	115	115	115
70°	142	142	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.4	24.7
10°-20°	651.9	51.1
20°-30°	278.4	21.8
30°-40°	24.6	1.9
40°-50°	3.7	0.3
50°-60°	1.0	0.1
60°-70°	0.5	0.0
70°-80°	0.2	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°	1244.7	97.6
0°-40°	1269.3	99.6
0°-60°	1274.0	99.9
0°-90°	1274.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1274.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3578	3578	3578	3578	3578	
5°	3425	3453	3482	3477	3496	310
15°	2405	2429	2450	2432	2440	645
25°	411	560	578	553	405	252
35°	24	30	41	29	23	20
45°	4	4	5	4	3	3
55°	1	1	1	1	0	1
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°	3577.6	3577.6	3577.6	3577.6	3577.6
2.5°	3514.7	3539.7	3561.9	3560.3	3578.7
5°	3424.8	3453.0	3482.2	3476.8	3496.3
7.5°	3200.4	3229.1	3267.1	3252.4	3265.4
10°	2944.0	2974.4	3004.2	2995.0	3012.9
12.5°	2703.9	2721.3	2743.0	2741.3	2760.3
15°	2405.3	2428.6	2450.3	2432.4	2439.5
17.5°	2031.3	2040.6	2056.8	2038.9	2043.8
20°	1537.6	1563.1	1572.3	1551.7	1574.5
22.5°	962.0	1023.3	1028.1	1017.3	983.2
25°	411.4	560.4	578.3	553.4	404.9
27.5°	166.4	212.5	275.3	208.1	162.1
30°	94.3	102.4	119.8	100.8	95.9
32.5°	45.0	57.4	68.8	55.8	45.5
35°	23.8	29.8	41.2	29.3	23.3
37.5°	13.5	17.3	24.9	16.3	13.5
40°	8.1	10.3	14.6	9.8	7.6
42.5°	5.4	6.5	8.1	6.0	4.9
45°	3.8	3.8	4.9	3.8	3.3
47.5°	2.7	2.7	3.3	2.2	2.2
50°	2.2	2.2	2.2	1.6	1.6
52.5°	1.6	1.6	1.6	1.1	1.1
55°	1.1	1.1	1.1	1.1	0.5
57.5°	1.1	1.1	1.1	0.5	0.5
60°	1.1	1.1	0.5	0.5	0.5
62.5°	0.5	0.5	0.5	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	0.0
72.5°	0.5	0.5	0.5	0.5	0.5
75°	0.0	0.5	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	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)