

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: P182592

Luminaire Tested: **LDSQA4A13835D010TE LAR35FL 4LSQAL1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P182592
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: LDSQA4A13835D010TE 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: 1753.0 lumens
Efficiency: N/A
Efficacy: 78.7 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

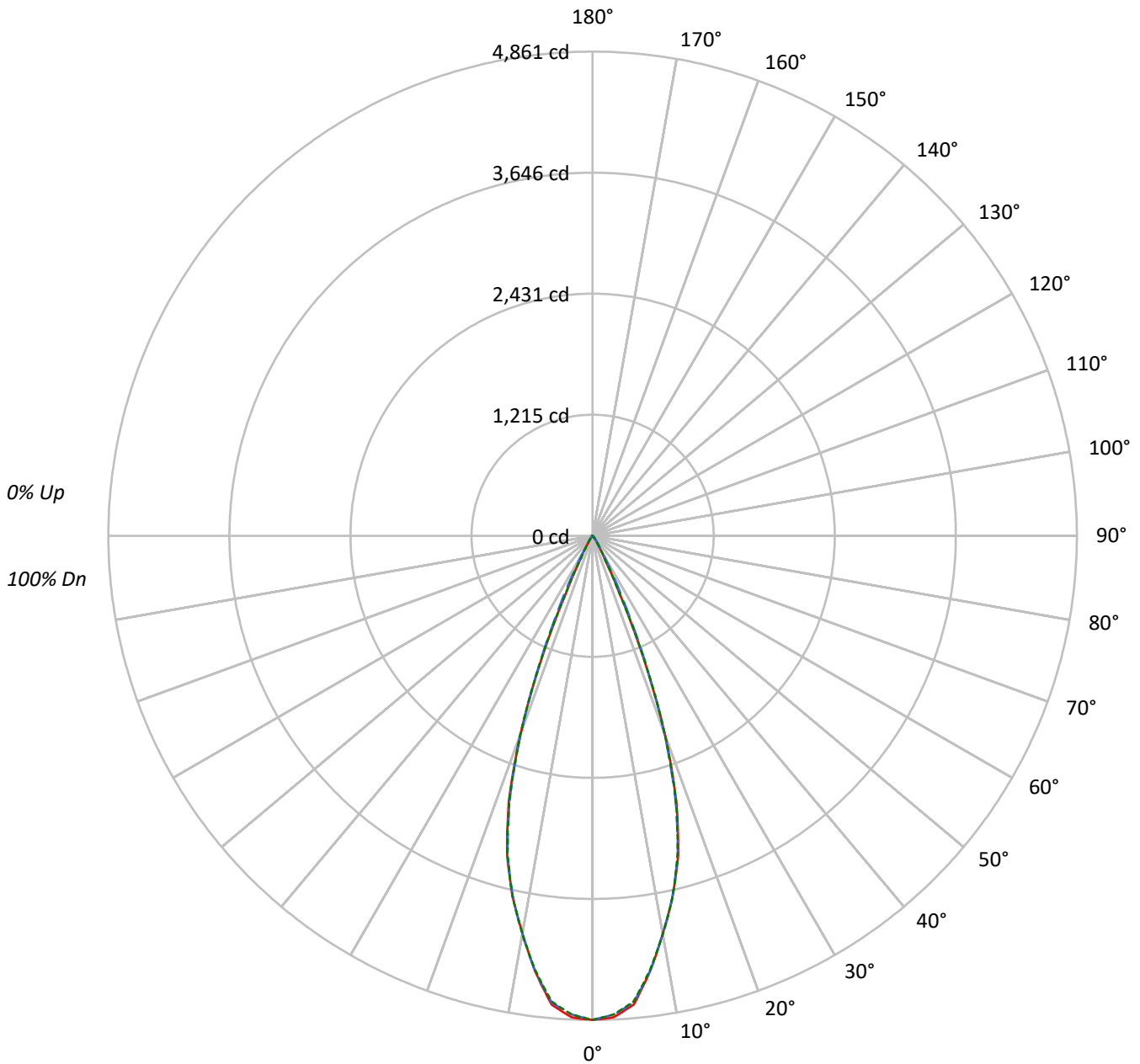
Input Watts (W): 22.27
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	470873	470873	470873
5°	459485	457452	456597
10°	399018	398939	399411
15°	332832	331057	330896
20°	218309	216577	218484
25°	66753	84433	66496
30°	16701	20202	16343
35°	5416	8349	5322
40°	2542	3958	2238
45°	1315	1644	986
50°	723	844	482
55°	405	540	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°	427.0	24.4
10°-20°	884.8	50.5
20°-30°	386.4	22.0
30°-40°	42.2	2.4
40°-50°	8.7	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°	1698.2	96.9
0°-40°	1740.3	99.3
0°-60°	1751.4	99.9
0°-90°	1753.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1753.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4861	4861	4861	4861	4861	
5°	4725	4712	4704	4716	4695	428
15°	3319	3304	3301	3306	3299	888
25°	624	770	790	777	622	361
35°	46	55	71	54	45	36
45°	10	10	12	9	7	8
55°	2	2	3	2	2	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°	4860.6	4860.6	4860.6	4860.6	4860.6
2.5°	4839.0	4821.3	4811.7	4832.5	4811.7
5°	4725.0	4712.1	4704.1	4716.1	4695.3
7.5°	4412.7	4399.9	4411.1	4411.1	4400.7
10°	4056.3	4049.1	4055.5	4072.3	4060.3
12.5°	3710.3	3704.7	3707.1	3724.7	3711.1
15°	3318.6	3304.1	3300.9	3305.7	3299.3
17.5°	2796.8	2775.1	2761.4	2772.7	2775.9
20°	2117.6	2117.6	2100.8	2110.4	2119.3
22.5°	1354.2	1385.5	1388.8	1387.1	1381.5
25°	624.5	769.8	789.9	777.1	622.1
27.5°	252.9	312.3	388.5	321.9	244.0
30°	149.3	157.3	180.6	154.9	146.1
32.5°	78.7	94.7	110.8	93.9	76.3
35°	45.8	54.6	70.6	53.8	45.0
37.5°	29.7	34.5	47.4	34.5	28.1
40°	20.1	22.5	31.3	21.7	17.7
42.5°	13.6	15.3	20.1	13.6	11.2
45°	9.6	10.4	12.0	8.8	7.2
47.5°	6.4	7.2	8.0	5.6	4.8
50°	4.8	4.8	5.6	4.0	3.2
52.5°	3.2	4.0	4.0	2.4	2.4
55°	2.4	2.4	3.2	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)