

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: P182485

Luminaire Tested: **LDSQA4A18940D010TE LAR35FL 4LSQA1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P182485
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: LDSQA4A18940D010TE LAR35FL 4LSQA1H
Description: PORTFOLIO 4" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,
SELF-FLANGED, 35° FLOOD
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2072.3 lumens
Efficiency: N/A
Efficacy: 71.2 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

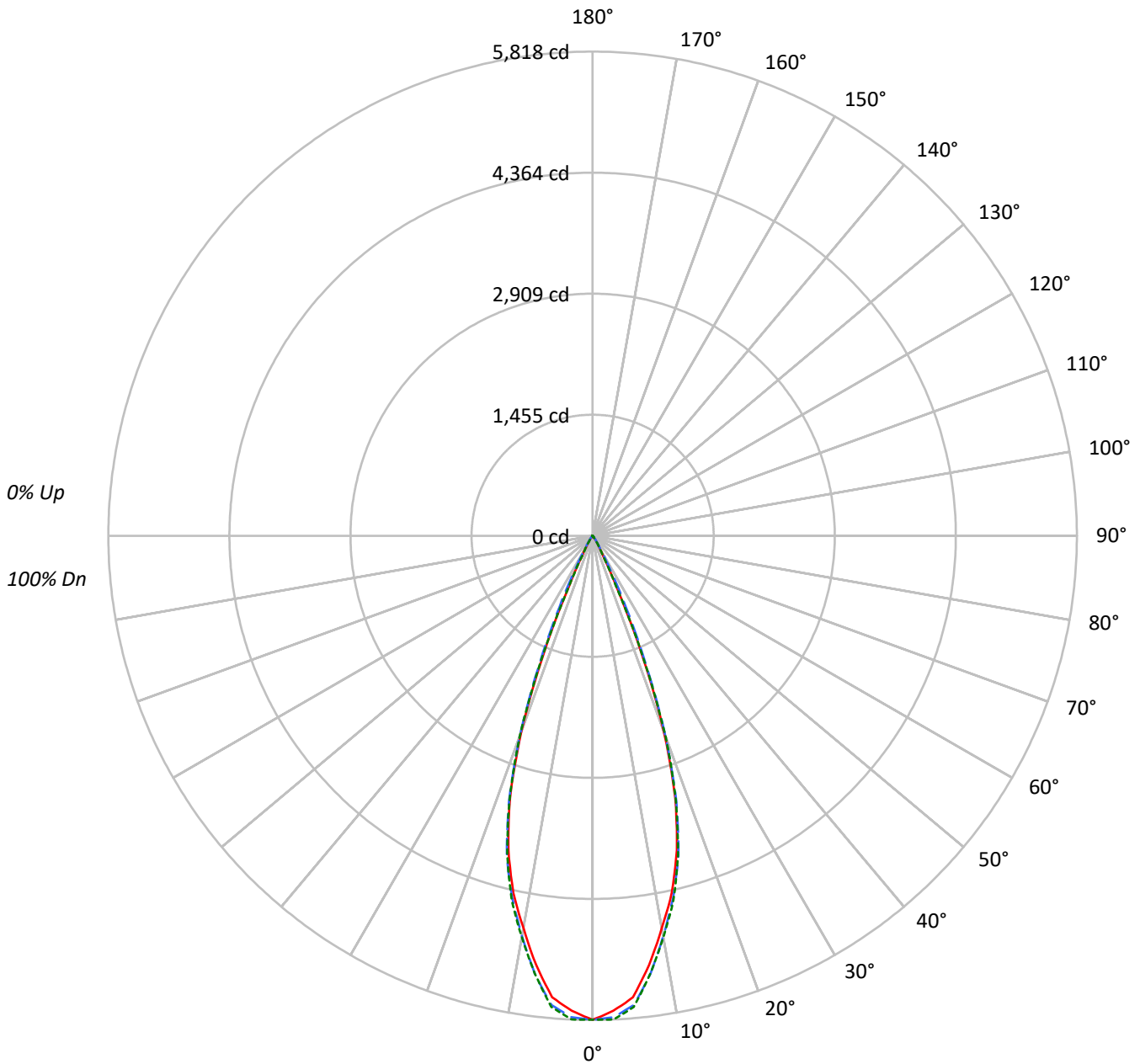
Input Watts (W): 29.12
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	563408	563408	563408
5°	541395	550477	552704
10°	470779	480399	481786
15°	392155	399486	397721
20°	257680	263495	263855
25°	71477	100487	70344
30°	17148	21780	17439
35°	4589	7924	4482
40°	1669	3010	1555
45°	849	1082	726
50°	527	527	392
55°	304	304	152
60°	349	174	174
65°	206	206	206
70°	255	255	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	511.1	24.7
10°-20°	1059.7	51.1
20°-30°	452.6	21.8
30°-40°	40.0	1.9
40°-50°	6.0	0.3
50°-60°	1.7	0.1
60°-70°	0.9	0.0
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°	2023.4	97.6
0°-40°	2063.4	99.6
0°-60°	2071.0	99.9
0°-90°	2072.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2072.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5816	5816	5816	5816	5816	
5°	5567	5613	5661	5652	5684	505
15°	3910	3948	3983	3954	3966	1048
25°	669	911	940	900	658	410
35°	39	48	67	48	38	33
45°	6	6	8	6	5	5
55°	2	2	2	2	1	2
65°	1	1	1	1	1	1
75°	0	1	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°	5815.8	5815.8	5815.8	5815.8	5815.8
2.5°	5713.6	5754.1	5790.2	5787.6	5817.5
5°	5567.3	5613.1	5660.7	5651.9	5683.6
7.5°	5202.6	5249.2	5310.9	5287.1	5308.3
10°	4785.8	4835.2	4883.6	4868.6	4897.7
12.5°	4395.5	4423.7	4459.0	4456.3	4487.1
15°	3910.1	3947.9	3983.2	3954.1	3965.6
17.5°	3302.1	3317.1	3343.6	3314.5	3322.4
20°	2499.5	2540.9	2555.9	2522.4	2559.4
22.5°	1563.8	1663.4	1671.3	1653.7	1598.2
25°	668.7	911.0	940.1	899.5	658.1
27.5°	270.5	345.4	447.6	338.3	263.4
30°	153.3	166.5	194.7	163.9	155.9
32.5°	73.1	93.4	111.9	90.7	74.0
35°	38.8	48.5	67.0	47.6	37.9
37.5°	22.0	28.2	40.5	26.4	22.0
40°	13.2	16.7	23.8	15.9	12.3
42.5°	8.8	10.6	13.2	9.7	7.9
45°	6.2	6.2	7.9	6.2	5.3
47.5°	4.4	4.4	5.3	3.5	3.5
50°	3.5	3.5	3.5	2.6	2.6
52.5°	2.6	2.6	2.6	1.8	1.8
55°	1.8	1.8	1.8	1.8	0.9
57.5°	1.8	1.8	1.8	0.9	0.9
60°	1.8	1.8	0.9	0.9	0.9
62.5°	0.9	0.9	0.9	0.9	0.9
65°	0.9	0.9	0.9	0.9	0.9
67.5°	0.9	0.9	0.9	0.9	0.9
70°	0.9	0.9	0.9	0.9	0.0
72.5°	0.9	0.9	0.9	0.9	0.9
75°	0.0	0.9	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)