

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: P182574

Luminaire Tested: **LDSQA4A18827D010TE LAR35FL 4LSQAL1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P182574
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: LDSQA4A18827D010TE LAR35FL 4LSQAL1H
Description: PORTFOLIO 4" SQUARE LENSED ADJUSTABLE, SELF-FLANGED, 35° FLOOD
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2102.2 lumens
Efficiency: N/A
Efficacy: 72.2 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

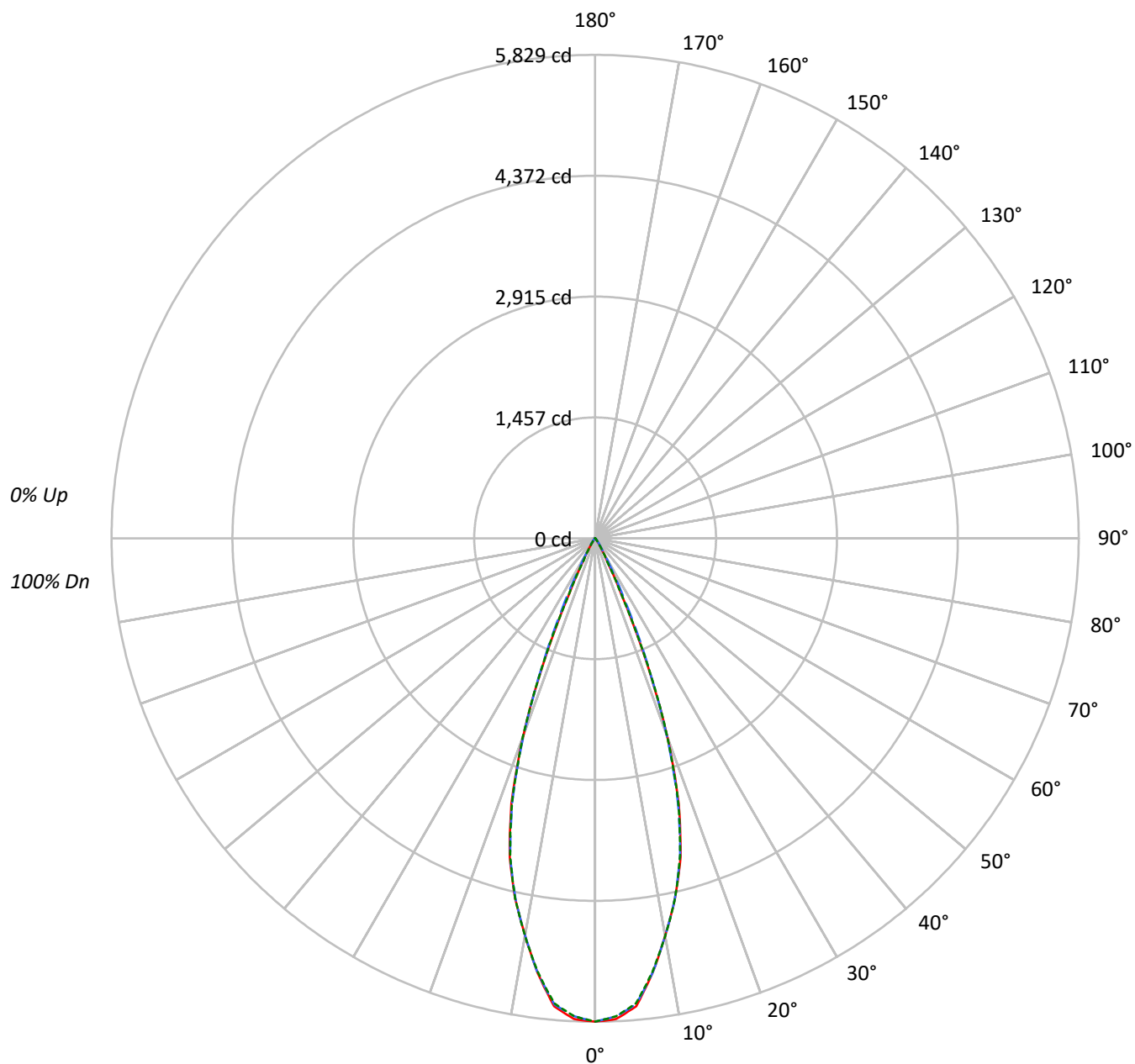
Input Watts (W): 29.12
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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	73	71	77	73	71	76	73	70	76	72	70	69		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	564648	564648	564648
5°	550983	548552	547521
10°	478481	478383	478953
15°	399105	396979	396789
20°	261794	259701	261989
25°	80050	101246	79740
30°	20023	24229	19598
35°	6493	10017	6374
40°	3048	4742	2681
45°	1589	1973	1192
50°	874	1010	588
55°	490	659	321
60°	368	368	368
65°	229	229	229
70°	283	283	283
75°	0	374	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	512.0	24.4
10°-20°	1061.0	50.5
20°-30°	463.3	22.0
30°-40°	50.6	2.4
40°-50°	10.5	0.5
50°-60°	2.9	0.1
60°-70°	1.2	0.1
70°-80°	0.7	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°	2036.4	96.9
0°-40°	2086.9	99.3
0°-60°	2100.3	99.9
0°-90°	2102.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2102.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5829	5829	5829	5829	5829	
5°	5666	5650	5641	5655	5630	513
15°	3979	3962	3958	3964	3956	1065
25°	749	923	947	932	746	433
35°	55	66	85	64	54	43
45°	12	12	14	11	9	10
55°	3	3	4	2	2	3
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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5828.6	5828.6	5828.6	5828.6	5828.6
2.5°	5802.6	5781.4	5769.9	5794.9	5769.9
5°	5665.9	5650.5	5640.9	5655.3	5630.3
7.5°	5291.4	5276.0	5289.5	5289.5	5277.0
10°	4864.1	4855.4	4863.1	4883.3	4868.9
12.5°	4449.2	4442.4	4445.3	4466.5	4450.1
15°	3979.4	3962.1	3958.2	3964.0	3956.3
17.5°	3353.7	3327.7	3311.4	3324.8	3328.7
20°	2539.4	2539.4	2519.1	2530.7	2541.3
22.5°	1623.9	1661.5	1665.3	1663.4	1656.6
25°	748.9	923.1	947.2	931.8	746.0
27.5°	303.2	374.5	465.9	386.0	292.6
30°	179.0	188.7	216.6	185.8	175.2
32.5°	94.3	113.6	132.8	112.6	91.4
35°	54.9	65.5	84.7	64.5	53.9
37.5°	35.6	41.4	56.8	41.4	33.7
40°	24.1	27.0	37.5	26.0	21.2
42.5°	16.4	18.3	24.1	16.4	13.5
45°	11.6	12.5	14.4	10.6	8.7
47.5°	7.7	8.7	9.6	6.7	5.8
50°	5.8	5.8	6.7	4.8	3.9
52.5°	3.9	4.8	4.8	2.9	2.9
55°	2.9	2.9	3.9	1.9	1.9
57.5°	2.9	2.9	2.9	1.9	1.9
60°	1.9	1.9	1.9	1.9	1.9
62.5°	1.0	1.9	1.9	1.0	1.0
65°	1.0	1.0	1.0	1.0	1.0
67.5°	1.0	1.0	1.0	1.0	1.0
70°	1.0	1.0	1.0	1.0	1.0
72.5°	1.0	1.0	1.0	1.0	1.0
75°	0.0	1.0	1.0	0.0	0.0
77.5°	0.0	1.0	1.0	1.0	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)