

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: P182599

Luminaire Tested: **LDSQA4A28830D010TE LAR35FL 4LSQAL1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P182599
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: LDSQA4A28830D010TE LAR35FL 4LSQAL1H
Description: PORTFOLIO 4" SQUARE LENSED ADJUSTABLE, SELF-FLANGED, 35° FLOOD
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2938.4 lumens
Efficiency: N/A
Efficacy: 66.0 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

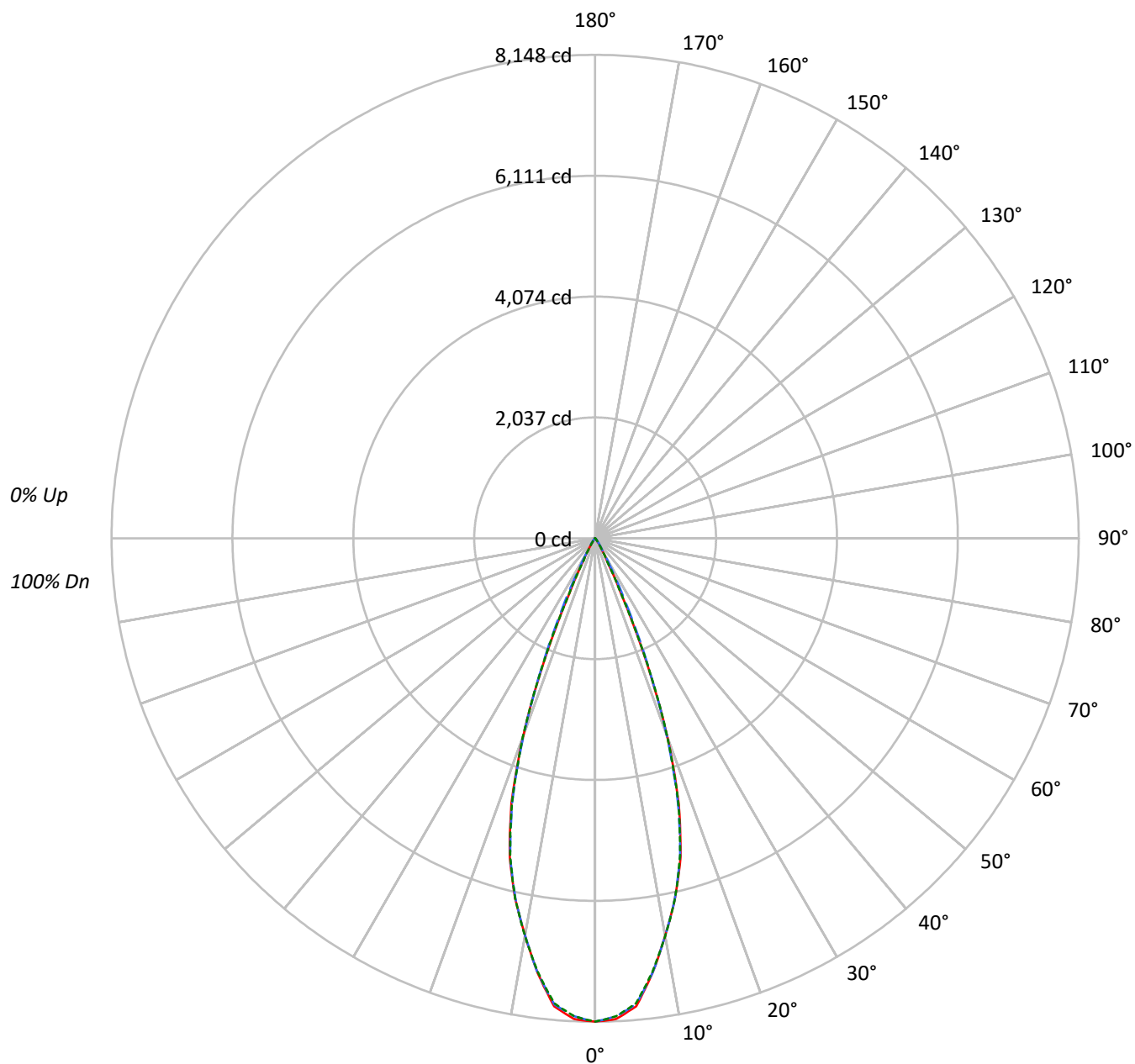
Input Watts (W): 44.49
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	115	113	111	109	112	110	109	107	106	105	104		103	102	101		99
2	111	107	104	101	109	105	102	100	102	100	98		99	97	96		97
3	107	102	98	95	105	101	97	94	98	95	93		96	94	92		94
4	103	98	93	90	102	97	93	90	95	91	89		93	90	88		91
5	100	94	89	86	98	93	89	86	91	88	85		90	87	84		88
6	97	90	86	82	95	89	85	82	88	84	82		87	83	81		86
7	94	87	82	79	92	86	82	79	85	81	78		84	81	78		83
8	91	84	79	76	90	83	79	76	82	78	76		81	78	75		80
9	88	81	76	73	87	80	76	73	79	76	73		79	75	73		78
10	85	78	74	71	84	78	74	71	77	73	71		76	73	70		76

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	789302	789302	789302
5°	770204	766800	765361
10°	668846	668719	669505
15°	557899	554930	554659
20°	365948	363031	366226
25°	111903	141533	111465
30°	27999	33872	27395
35°	9071	14002	8917
40°	4249	6639	3743
45°	2206	2767	1658
50°	1221	1417	814
55°	676	912	456
60°	523	523	523
65°	298	298	298
70°	368	368	368
75°	0	487	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	715.8	24.4
10°-20°	1483.1	50.5
20°-30°	647.7	22.0
30°-40°	70.7	2.4
40°-50°	14.6	0.5
50°-60°	4.0	0.1
60°-70°	1.6	0.1
70°-80°	0.9	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°	2846.6	96.9
0°-40°	2917.2	99.3
0°-60°	2935.9	99.9
0°-90°	2938.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2938.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8148	8148	8148	8148	8148	
5°	7920	7899	7885	7905	7870	717
15°	5563	5538	5533	5541	5530	1488
25°	1047	1290	1324	1302	1043	606
35°	77	92	118	90	75	60
45°	16	18	20	15	12	13
55°	4	4	5	3	3	4
65°	1	1	1	1	1	1
75°	0	1	1	0	0	1
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°	8147.6	8147.6	8147.6	8147.6	8147.6
2.5°	8111.3	8081.7	8065.5	8100.5	8065.5
5°	7920.2	7898.7	7885.2	7905.4	7870.4
7.5°	7396.8	7375.2	7394.1	7394.1	7376.6
10°	6799.3	6787.2	6798.0	6826.2	6806.0
12.5°	6219.4	6209.9	6214.0	6243.6	6220.7
15°	5562.7	5538.5	5533.1	5541.2	5530.4
17.5°	4688.1	4651.7	4628.9	4647.7	4653.1
20°	3549.7	3549.7	3521.4	3537.6	3552.4
22.5°	2270.0	2322.5	2327.9	2325.2	2315.8
25°	1046.9	1290.4	1324.1	1302.5	1042.8
27.5°	423.9	523.4	651.3	539.6	409.1
30°	250.3	263.7	302.8	259.7	244.9
32.5°	131.9	158.8	185.7	157.4	127.8
35°	76.7	91.5	118.4	90.2	75.4
37.5°	49.8	57.9	79.4	57.9	47.1
40°	33.6	37.7	52.5	36.3	29.6
42.5°	22.9	25.6	33.6	22.9	18.8
45°	16.1	17.5	20.2	14.8	12.1
47.5°	10.8	12.1	13.5	9.4	8.1
50°	8.1	8.1	9.4	6.7	5.4
52.5°	5.4	6.7	6.7	4.0	4.0
55°	4.0	4.0	5.4	2.7	2.7
57.5°	4.0	4.0	4.0	2.7	2.7
60°	2.7	2.7	2.7	2.7	2.7
62.5°	1.3	2.7	2.7	1.3	1.3
65°	1.3	1.3	1.3	1.3	1.3
67.5°	1.3	1.3	1.3	1.3	1.3
70°	1.3	1.3	1.3	1.3	1.3
72.5°	1.3	1.3	1.3	1.3	1.3
75°	0.0	1.3	1.3	0.0	0.0
77.5°	0.0	1.3	1.3	1.3	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)