

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: P182575

Luminaire Tested: **LDSQA4A18830D010TE LAR35FL 4LSQAL1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P182575
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: LDSQA4A18830D010TE 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: 2145.4 lumens
Efficiency: N/A
Efficacy: 73.7 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

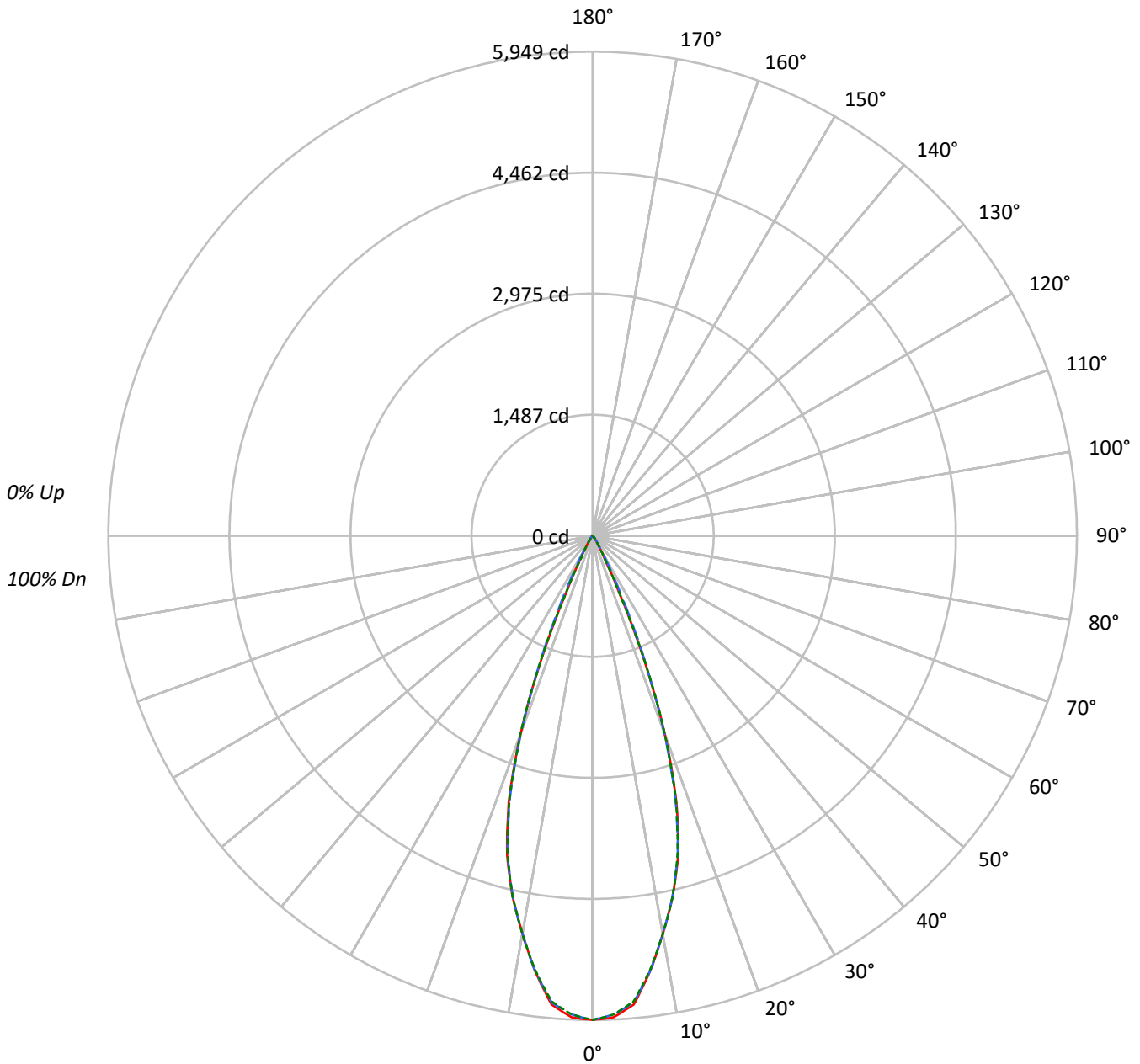
Input Watts (W): 29.12
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P182575

CATALOG NUMBER: LDSQA4A18830D010TE LAR35FL 4LSQAL1H

Luminous Intensity Polar Plot





TEST NUMBER: P182575

CATALOG NUMBER: LDSQA4A18830D010TE LAR35FL 4LSQAL1H

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	576273	576273	576273
5°	562332	559842	558792
10°	488328	488229	488810
15°	407329	405153	404962
20°	267175	265051	267381
25°	81696	103331	81386
30°	20437	24722	20001
35°	6623	10230	6504
40°	3111	4843	2732
45°	1617	2014	1206
50°	889	1040	588
55°	490	659	338
60°	388	388	388
65°	229	229	229
70°	283	283	283
75°	0	374	0
80°	0	0	0
85°	0	0	0



TEST NUMBER: P182575

CATALOG NUMBER: LDSQA4A18830D010TE LAR35FL 4LSQAL1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	522.6	24.4
10°-20°	1082.8	50.5
20°-30°	472.9	22.0
30°-40°	51.6	2.4
40°-50°	10.7	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°	2078.3	96.9
0°-40°	2129.9	99.3
0°-60°	2143.5	99.9
0°-90°	2145.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2145.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5949	5949	5949	5949	5949	
5°	5783	5767	5757	5772	5746	523
15°	4061	4044	4040	4046	4038	1086
25°	764	942	967	951	761	442
35°	56	67	86	66	55	44
45°	12	13	15	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	0



TEST NUMBER: P182575

CATALOG NUMBER: LDSQA4A18830D010TE LAR35FL 4LSQAL1H

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5948.6	5948.6	5948.6	5948.6	5948.6
2.5°	5922.1	5900.5	5888.7	5914.2	5888.7
5°	5782.6	5766.9	5757.0	5771.8	5746.2
7.5°	5400.4	5384.7	5398.4	5398.4	5385.7
10°	4964.2	4955.4	4963.2	4983.9	4969.1
12.5°	4540.8	4533.9	4536.9	4558.5	4541.8
15°	4061.4	4043.7	4039.7	4045.6	4037.8
17.5°	3422.8	3396.3	3379.6	3393.3	3397.2
20°	2591.6	2591.6	2571.0	2582.8	2593.6
22.5°	1657.4	1695.7	1699.6	1697.6	1690.8
25°	764.3	942.1	966.7	951.0	761.4
27.5°	309.5	382.2	475.5	394.0	298.7
30°	182.7	192.6	221.0	189.6	178.8
32.5°	96.3	115.9	135.6	114.9	93.3
35°	56.0	66.8	86.5	65.8	55.0
37.5°	36.3	42.2	58.0	42.2	34.4
40°	24.6	27.5	38.3	26.5	21.6
42.5°	16.7	18.7	24.6	16.7	13.8
45°	11.8	12.8	14.7	10.8	8.8
47.5°	7.9	8.8	9.8	6.9	5.9
50°	5.9	5.9	6.9	4.9	3.9
52.5°	3.9	4.9	4.9	2.9	2.9
55°	2.9	2.9	3.9	2.0	2.0
57.5°	2.9	2.9	2.9	2.0	2.0
60°	2.0	2.0	2.0	2.0	2.0
62.5°	1.0	2.0	2.0	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



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)