

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: P182605

Luminaire Tested: **LDSQA4A28940D010TE LAR35FL 4LSQAL1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P182605
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: LDSQA4A28940D010TE LAR35FL 4LSQAL1H
Description: PORTFOLIO 4" SQUARE LENSED ADJUSTABLE, 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: 2635.6 lumens
Efficiency: N/A
Efficacy: 59.2 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

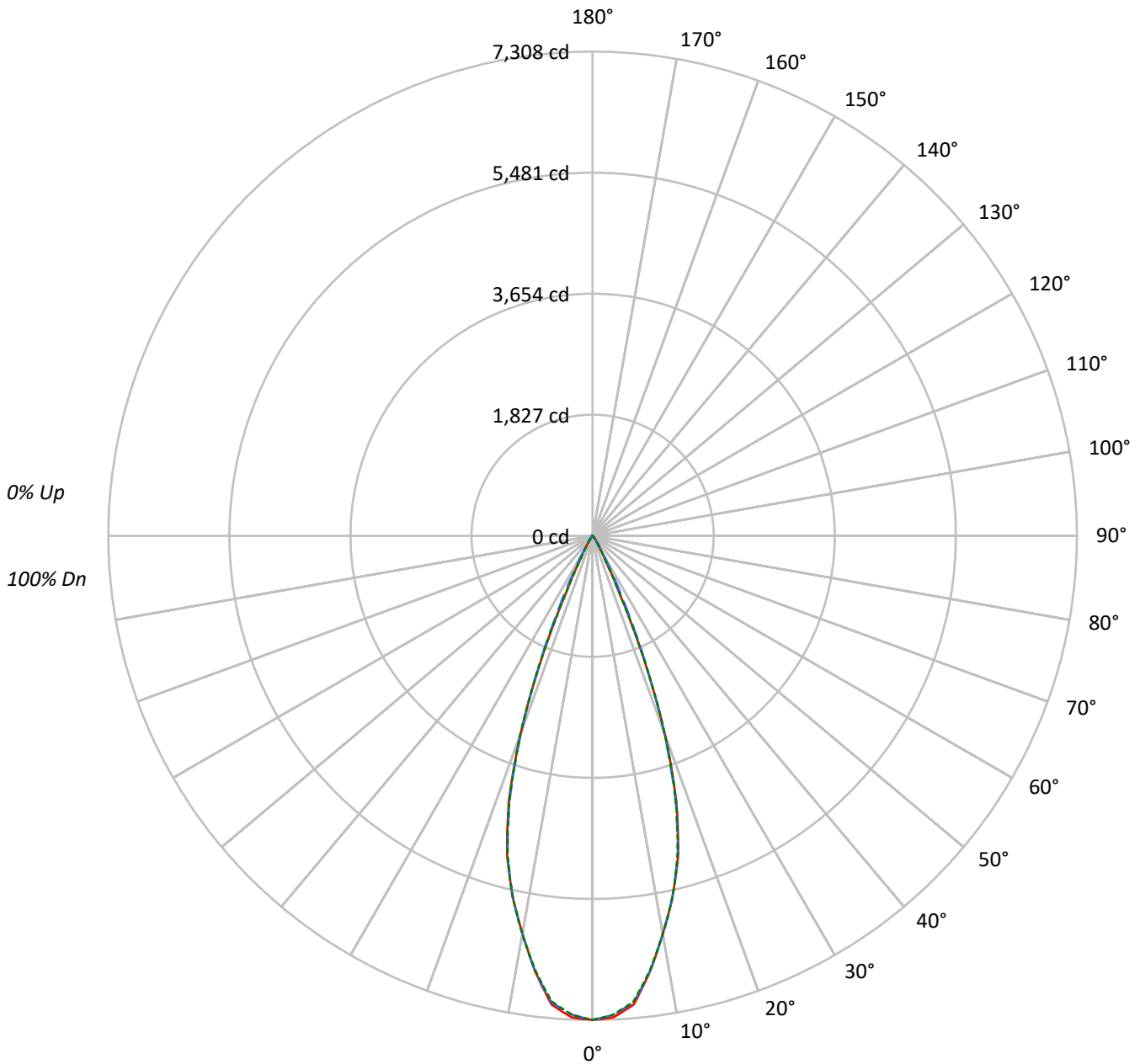
Input Watts (W): 44.49
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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°	707946	707946	707946
5°	690822	687769	686475
10°	599909	599791	600499
15°	500401	497733	497493
20°	328226	325618	328474
25°	100370	126943	99985
30°	25113	30382	24576
35°	8136	12560	7995
40°	3819	5956	3364
45°	1987	2480	1493
50°	1085	1266	723
55°	608	811	405
60°	465	465	465
65°	275	275	275
70°	340	340	340
75°	0	449	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	642.0	24.4
10°-20°	1330.3	50.5
20°-30°	580.9	22.0
30°-40°	63.4	2.4
40°-50°	13.1	0.5
50°-60°	3.6	0.1
60°-70°	1.5	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°	2553.2	96.9
0°-40°	2616.6	99.3
0°-60°	2633.3	99.9
0°-90°	2635.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2635.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7308	7308	7308	7308	7308	
5°	7104	7085	7072	7091	7059	643
15°	4989	4968	4963	4970	4960	1335
25°	939	1157	1188	1168	935	543
35°	69	82	106	81	68	54
45°	14	16	18	13	11	12
55°	4	4	5	2	2	4
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°	7307.8	7307.8	7307.8	7307.8	7307.8
2.5°	7275.2	7248.7	7234.2	7265.6	7234.2
5°	7103.9	7084.6	7072.5	7090.6	7059.2
7.5°	6634.4	6615.1	6632.0	6632.0	6616.3
10°	6098.5	6087.6	6097.3	6122.6	6104.5
12.5°	5578.3	5569.9	5573.5	5600.1	5579.5
15°	4989.4	4967.6	4962.8	4970.1	4960.4
17.5°	4204.9	4172.3	4151.8	4168.7	4173.5
20°	3183.8	3183.8	3158.5	3173.0	3186.2
22.5°	2036.1	2083.1	2088.0	2085.5	2077.1
25°	939.0	1157.4	1187.6	1168.3	935.4
27.5°	380.2	469.5	584.1	484.0	366.9
30°	224.5	236.6	271.6	232.9	219.7
32.5°	118.3	142.4	166.6	141.2	114.7
35°	68.8	82.1	106.2	80.9	67.6
37.5°	44.7	51.9	71.2	51.9	42.2
40°	30.2	33.8	47.1	32.6	26.6
42.5°	20.5	22.9	30.2	20.5	16.9
45°	14.5	15.7	18.1	13.3	10.9
47.5°	9.7	10.9	12.1	8.4	7.2
50°	7.2	7.2	8.4	6.0	4.8
52.5°	4.8	6.0	6.0	3.6	3.6
55°	3.6	3.6	4.8	2.4	2.4
57.5°	3.6	3.6	3.6	2.4	2.4
60°	2.4	2.4	2.4	2.4	2.4
62.5°	1.2	2.4	2.4	1.2	1.2
65°	1.2	1.2	1.2	1.2	1.2
67.5°	1.2	1.2	1.2	1.2	1.2
70°	1.2	1.2	1.2	1.2	1.2
72.5°	1.2	1.2	1.2	1.2	1.2
75°	0.0	1.2	1.2	0.0	0.0
77.5°	0.0	1.2	1.2	1.2	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)