

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: P182582

Luminaire Tested: **LDSQA4A09827D010TE LAR35FL 4LSQAL1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P182582
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: LDSQA4A09827D010TE 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: 1139.3 lumens
Efficiency: N/A
Efficacy: 82.3 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

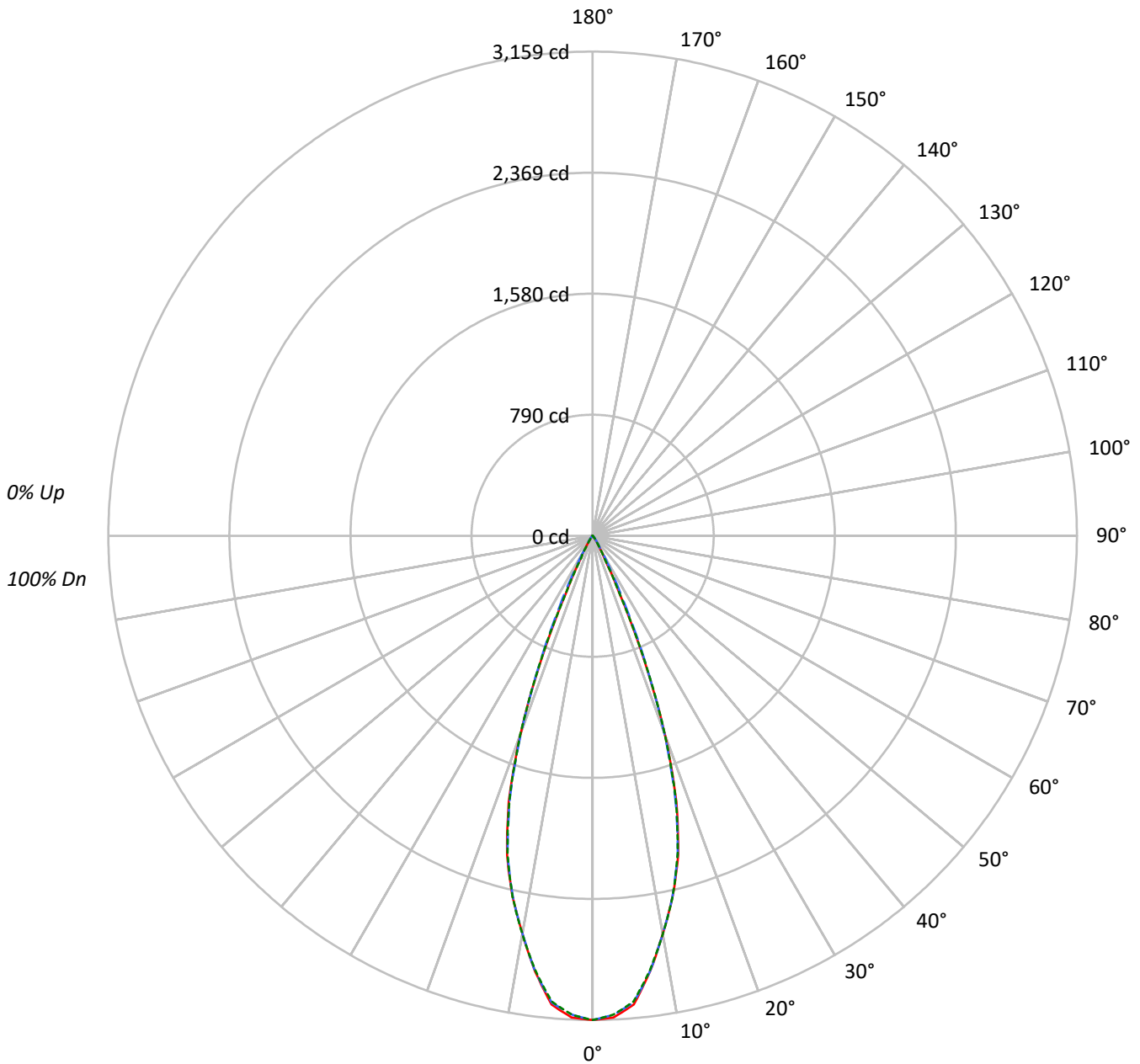
Input Watts (W): 13.84
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	86	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°	306039	306039	306039
5°	298641	297318	296764
10°	259342	259283	259598
15°	216322	215168	215068
20°	141897	140763	142000
25°	43387	54877	43216
30°	10851	13133	10627
35°	3512	5428	3453
40°	1644	2567	1454
45°	863	1069	644
50°	467	558	316
55°	270	355	169
60°	194	194	194
65°	115	115	115
70°	142	142	142
75°	0	187	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.5	24.4
10°-20°	575.1	50.5
20°-30°	251.1	22.0
30°-40°	27.4	2.4
40°-50°	5.7	0.5
50°-60°	1.6	0.1
60°-70°	0.6	0.1
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°	1103.7	96.9
0°-40°	1131.1	99.3
0°-60°	1138.4	99.9
0°-90°	1139.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1139.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3159	3159	3159	3159	3159	
5°	3071	3063	3057	3065	3052	278
15°	2157	2148	2145	2148	2144	577
25°	406	500	513	505	404	235
35°	30	36	46	35	29	23
45°	6	7	8	6	5	5
55°	2	2	2	1	1	2
65°	0	0	0	0	0	1
75°	0	0	0	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°	3159.1	3159.1	3159.1	3159.1	3159.1
2.5°	3145.1	3133.6	3127.3	3140.9	3127.3
5°	3071.0	3062.6	3057.4	3065.2	3051.7
7.5°	2868.0	2859.7	2867.0	2867.0	2860.2
10°	2636.4	2631.7	2635.8	2646.8	2639.0
12.5°	2411.5	2407.8	2409.4	2420.9	2412.0
15°	2156.9	2147.5	2145.4	2148.5	2144.4
17.5°	1817.7	1803.7	1794.8	1802.1	1804.2
20°	1376.4	1376.4	1365.4	1371.7	1377.4
22.5°	880.2	900.5	902.6	901.6	897.9
25°	405.9	500.3	513.4	505.0	404.3
27.5°	164.3	203.0	252.5	209.2	158.6
30°	97.0	102.3	117.4	100.7	95.0
32.5°	51.1	61.6	72.0	61.0	49.6
35°	29.7	35.5	45.9	35.0	29.2
37.5°	19.3	22.4	30.8	22.4	18.3
40°	13.0	14.6	20.3	14.1	11.5
42.5°	8.9	9.9	13.0	8.9	7.3
45°	6.3	6.8	7.8	5.7	4.7
47.5°	4.2	4.7	5.2	3.7	3.1
50°	3.1	3.1	3.7	2.6	2.1
52.5°	2.1	2.6	2.6	1.6	1.6
55°	1.6	1.6	2.1	1.0	1.0
57.5°	1.6	1.6	1.6	1.0	1.0
60°	1.0	1.0	1.0	1.0	1.0
62.5°	0.5	1.0	1.0	0.5	0.5
65°	0.5	0.5	0.5	0.5	0.5
67.5°	0.5	0.5	0.5	0.5	0.5
70°	0.5	0.5	0.5	0.5	0.5
72.5°	0.5	0.5	0.5	0.5	0.5
75°	0.0	0.5	0.5	0.0	0.0
77.5°	0.0	0.5	0.5	0.5	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)