

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: P182585

Luminaire Tested: **LDSQA4A09840D010TE LAR35FL 4LSQAL1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P182585
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: LDSQA4A09840D010TE LAR35FL 4LSQAL1H
Description: PORTFOLIO 4" SQUARE LENSED ADJUSTABLE, SELF-FLANGED, 35° FLOOD
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1241.4 lumens
Efficiency: N/A
Efficacy: 89.7 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

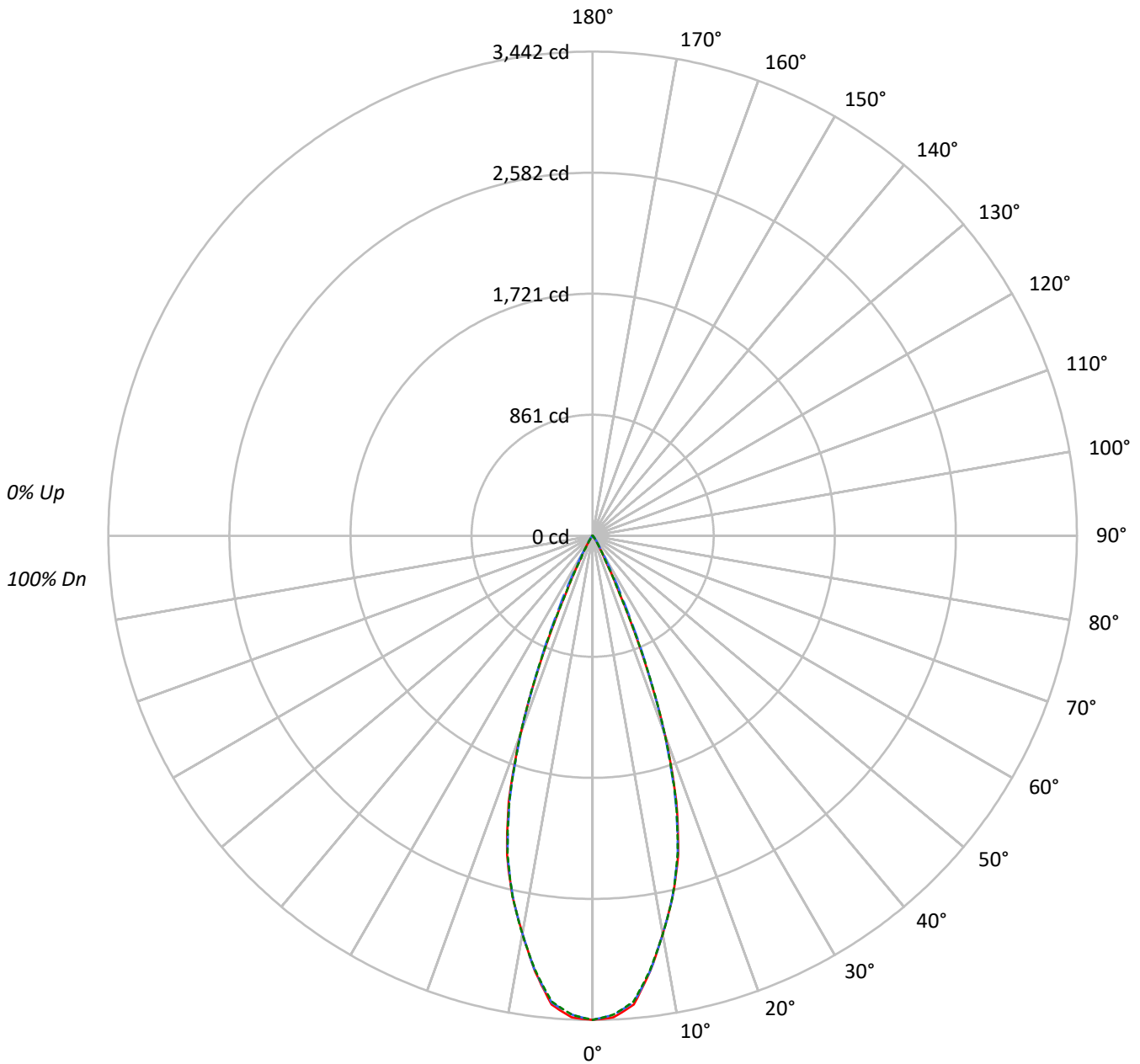
Input Watts (W): 13.84
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									20																	
RC	80									70									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	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°	333445	333445	333445
5°	325374	323934	323331
10°	282558	282499	282833
15°	235688	234434	234314
20°	154598	153361	154711
25°	47278	59794	47085
30°	11824	14307	11578
35°	3832	5913	3761
40°	1796	2807	1581
45°	932	1165	699
50°	512	603	347
55°	287	388	186
60°	213	213	213
65°	138	138	138
70°	170	170	170
75°	0	225	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.4	24.4
10°-20°	626.6	50.5
20°-30°	273.6	22.0
30°-40°	29.8	2.4
40°-50°	6.2	0.5
50°-60°	1.7	0.1
60°-70°	0.7	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°	1202.5	96.9
0°-40°	1232.4	99.3
0°-60°	1240.2	99.9
0°-90°	1241.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1241.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3442	3442	3442	3442	3442	
5°	3346	3337	3331	3340	3325	303
15°	2350	2340	2338	2341	2336	629
25°	442	545	559	550	440	256
35°	32	39	50	38	32	26
45°	7	7	8	6	5	6
55°	2	2	2	1	1	2
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°	3442.0	3442.0	3442.0	3442.0	3442.0
2.5°	3426.6	3414.1	3407.3	3422.1	3407.3
5°	3345.9	3336.8	3331.1	3339.6	3324.9
7.5°	3124.8	3115.7	3123.6	3123.6	3116.2
10°	2872.4	2867.3	2871.8	2883.7	2875.2
12.5°	2627.4	2623.4	2625.1	2637.6	2627.9
15°	2350.0	2339.7	2337.5	2340.9	2336.3
17.5°	1980.5	1965.1	1955.5	1963.4	1965.7
20°	1499.6	1499.6	1487.6	1494.5	1500.7
22.5°	959.0	981.1	983.4	982.3	978.3
25°	442.3	545.1	559.4	550.3	440.5
27.5°	179.1	221.1	275.1	227.9	172.8
30°	105.7	111.4	127.9	109.7	103.5
32.5°	55.7	67.1	78.4	66.5	54.0
35°	32.4	38.7	50.0	38.1	31.8
37.5°	21.0	24.4	33.5	24.4	19.9
40°	14.2	15.9	22.2	15.3	12.5
42.5°	9.7	10.8	14.2	9.7	8.0
45°	6.8	7.4	8.5	6.3	5.1
47.5°	4.5	5.1	5.7	4.0	3.4
50°	3.4	3.4	4.0	2.8	2.3
52.5°	2.3	2.8	2.8	1.7	1.7
55°	1.7	1.7	2.3	1.1	1.1
57.5°	1.7	1.7	1.7	1.1	1.1
60°	1.1	1.1	1.1	1.1	1.1
62.5°	0.6	1.1	1.1	0.6	0.6
65°	0.6	0.6	0.6	0.6	0.6
67.5°	0.6	0.6	0.6	0.6	0.6
70°	0.6	0.6	0.6	0.6	0.6
72.5°	0.6	0.6	0.6	0.6	0.6
75°	0.0	0.6	0.6	0.0	0.0
77.5°	0.0	0.6	0.6	0.6	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)