

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: P182583

Luminaire Tested: **LDSQA4A09830D010TE LAR35FL 4LSQAL1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P182583
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: LDSQA4A09830D010TE 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: 1162.8 lumens
Efficiency: N/A
Efficacy: 84.0 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

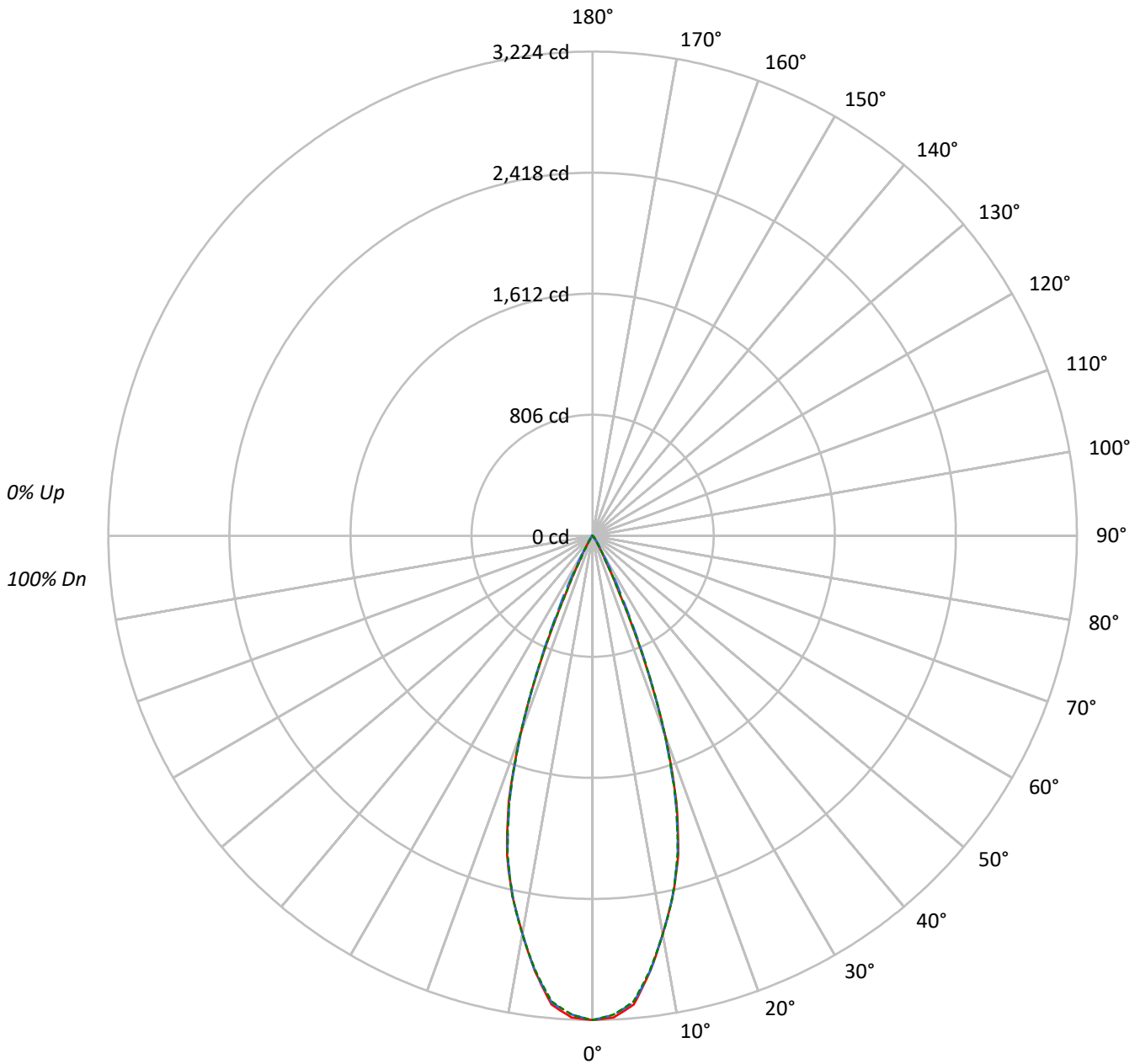
Input Watts (W): 13.84
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96					96			
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92					92			
3	107	102	98	95	105	101	97	94	98	95	93	96	94	92	94	92	90	89					89			
4	103	98	93	90	102	97	93	90	95	91	89	93	90	88	91	89	87	86					86			
5	100	94	89	86	98	93	89	86	91	88	85	90	87	84	88	86	84	82					82			
6	97	90	86	82	95	89	85	82	88	84	82	87	83	81	86	83	81	79					79			
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77					77			
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74					74			
9	88	81	76	73	87	80	76	73	79	76	73	79	75	73	78	75	73	72					72			
10	85	78	74	71	84	78	74	71	77	73	71	76	73	70	76	72	70	69					69			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	312346	312346	312346
5°	304787	303445	302871
10°	264674	264625	264940
15°	220775	219601	219491
20°	144814	143660	144928
25°	44285	56010	44114
30°	11074	13401	10839
35°	3595	5547	3524
40°	1682	2630	1480
45°	877	1096	658
50°	482	558	316
55°	270	355	186
60°	213	213	213
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°	283.2	24.4
10°-20°	586.9	50.5
20°-30°	256.3	22.0
30°-40°	28.0	2.4
40°-50°	5.8	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°	1126.4	96.9
0°-40°	1154.4	99.3
0°-60°	1161.8	99.9
0°-90°	1162.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1162.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3224	3224	3224	3224	3224	
5°	3134	3126	3120	3128	3114	284
15°	2201	2192	2190	2193	2188	589
25°	414	511	524	515	413	240
35°	30	36	47	36	30	24
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°	3224.2	3224.2	3224.2	3224.2	3224.2
2.5°	3209.8	3198.1	3191.7	3205.6	3191.7
5°	3134.2	3125.7	3120.4	3128.3	3114.5
7.5°	2927.1	2918.5	2926.0	2926.0	2919.1
10°	2690.6	2685.8	2690.1	2701.3	2693.3
12.5°	2461.1	2457.4	2459.0	2470.7	2461.7
15°	2201.3	2191.7	2189.6	2192.8	2188.5
17.5°	1855.2	1840.8	1831.7	1839.2	1841.3
20°	1404.7	1404.7	1393.5	1399.9	1405.8
22.5°	898.3	919.1	921.2	920.1	916.4
25°	414.3	510.7	524.0	515.4	412.7
27.5°	167.7	207.1	257.7	213.5	161.9
30°	99.0	104.4	119.8	102.8	96.9
32.5°	52.2	62.8	73.5	62.3	50.6
35°	30.4	36.2	46.9	35.7	29.8
37.5°	19.7	22.9	31.4	22.9	18.6
40°	13.3	14.9	20.8	14.4	11.7
42.5°	9.1	10.1	13.3	9.1	7.5
45°	6.4	6.9	8.0	5.9	4.8
47.5°	4.3	4.8	5.3	3.7	3.2
50°	3.2	3.2	3.7	2.7	2.1
52.5°	2.1	2.7	2.7	1.6	1.6
55°	1.6	1.6	2.1	1.1	1.1
57.5°	1.6	1.6	1.6	1.1	1.1
60°	1.1	1.1	1.1	1.1	1.1
62.5°	0.5	1.1	1.1	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)