

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: P208788

Luminaire Tested: **LDSQA6A15827D010TE LAR35FL 6LSQA1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P208788
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29057)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDSQA6A15827D010TE LAR35FL 6LSQA1H
Description: PORTFOLIO 6" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,
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: 1861.1 lumens
Efficiency: N/A
Efficacy: 85.4 lumens/watt
Spacing Criteria (0/90/45): 0.6 / 0.59 / 0.55
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

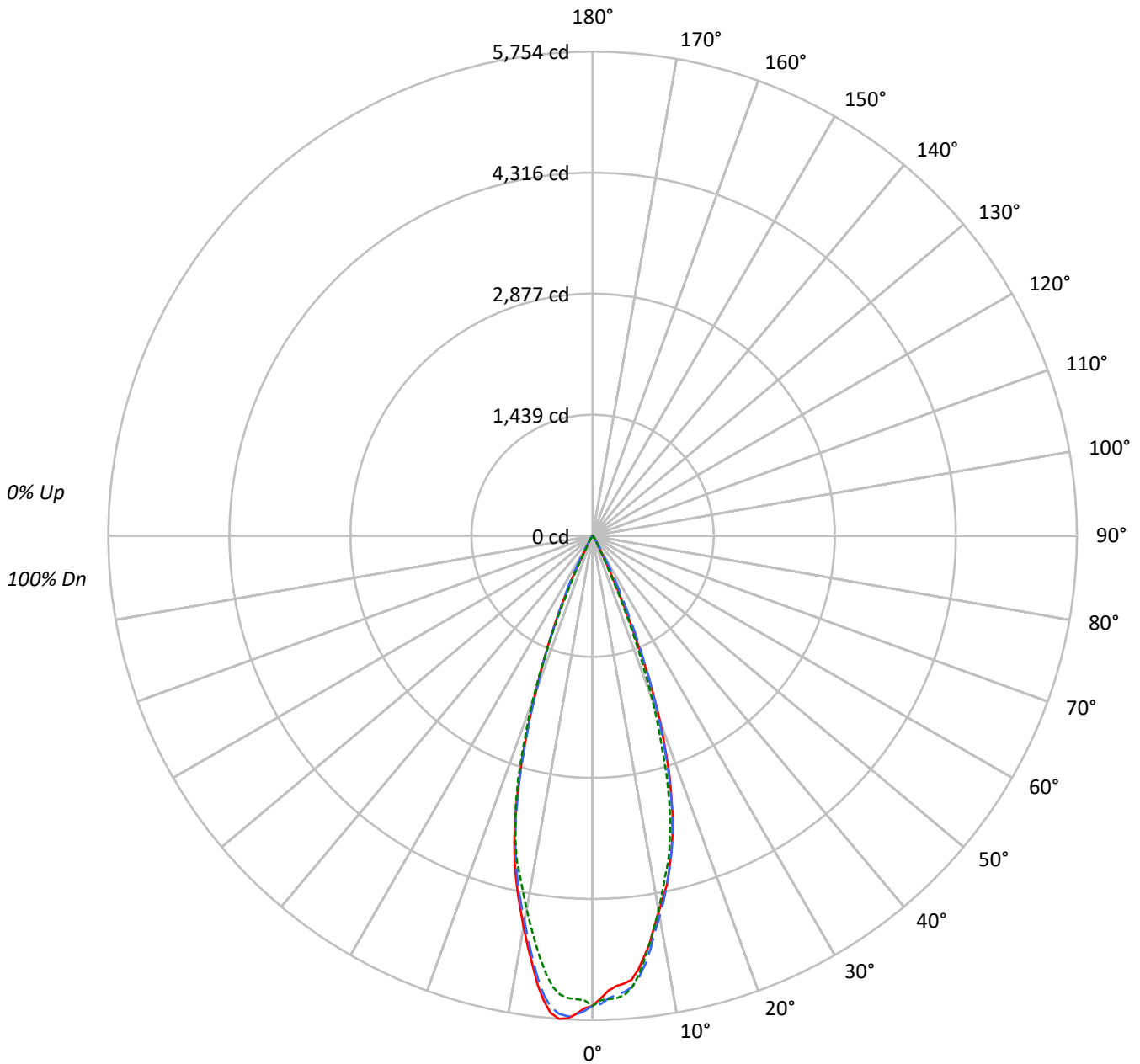
Input Watts (W): 21.79
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	240582	240582	240582
5°	228868	232840	246117
10°	198291	197220	206380
15°	163740	158601	159260
20°	106497	94882	90433
25°	32005	24466	32575
30°	6985	5081	5394
35°	2491	1530	1682
40°	736	483	579
45°	207	140	177
50°	40	40	74
55°	45	0	83
60°	52	0	0
65°	61	0	0
70°	76	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	492.2	26.4
10°-20°	955.4	51.3
20°-30°	377.5	20.3
30°-40°	31.0	1.7
40°-50°	4.3	0.2
50°-60°	0.5	0.0
60°-70°	0.1	0.0
70°-80°	0.0	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°	1825.1	98.1
0°-40°	1856.2	99.7
0°-60°	1860.9	100.0
0°-90°	1861.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1861.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5588	5588	5588	5588	5588	
5°	5295	5380	5387	5629	5694	479
15°	3673	3664	3558	3529	3573	982
25°	674	911	515	755	686	379
35°	47	48	29	40	32	35
45°	3	8	2	6	3	4
55°	1	1	0	1	1	1
65°	1	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	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	5587.7	5587.7	5587.7	5587.7	5587.7	5587.7	5587.7	5587.7	5587.7
1°	5497.5	5434.7	5566.1	5560.9	5519.8	5635.7	5647.7	5722.5	5616.3
2°	5409.0	5359.4	5497.5	5511.8	5511.8	5656.3	5693.9	5787.6	5689.9
3°	5357.7	5316.6	5460.4	5498.1	5502.1	5663.1	5718.5	5823.5	5743.6
4°	5335.4	5297.7	5434.2	5463.3	5469.0	5639.1	5697.4	5817.3	5754.5
5°	5295.4	5253.2	5379.9	5384.5	5387.3	5561.5	5629.4	5748.2	5694.5
6°	5182.4	5160.1	5276.0	5250.9	5242.9	5429.0	5498.1	5608.9	5554.6
7°	5034.5	5019.7	5128.7	5090.5	5070.5	5244.0	5308.0	5413.0	5370.2
8°	4883.2	4847.2	4951.2	4918.0	4884.4	5033.9	5089.9	5187.0	5147.0
9°	4694.2	4676.0	4753.0	4742.2	4696.5	4850.1	4870.7	4965.4	4932.9
10°	4535.5	4513.2	4590.9	4570.3	4511.0	4645.1	4659.4	4750.2	4720.5
11°	4381.4	4352.2	4418.5	4392.2	4325.4	4445.9	4455.6	4540.1	4509.8
12°	4239.8	4192.4	4244.3	4212.9	4142.1	4248.3	4252.9	4332.3	4304.3
13°	4052.5	4021.1	4062.2	4028.5	3983.4	4043.4	4034.2	4109.6	4083.9
14°	3872.1	3832.7	3870.4	3829.8	3782.4	3822.4	3796.2	3861.8	3841.8
15°	3673.4	3634.0	3663.7	3614.0	3558.1	3572.9	3529.0	3590.0	3572.9
16°	3442.2	3402.8	3428.5	3367.9	3301.7	3293.2	3234.9	3288.6	3270.9
17°	3181.3	3152.7	3170.4	3094.5	3024.8	2995.1	2918.1	2965.4	2947.7
18°	2932.9	2876.9	2884.4	2799.9	2693.7	2675.4	2588.6	2633.7	2616.0
19°	2607.5	2581.2	2585.2	2489.9	2382.5	2348.8	2262.6	2302.6	2282.6
20°	2324.3	2284.3	2280.9	2177.5	2070.8	2035.4	1952.0	1993.1	1973.7
21°	2000.6	2025.1	1982.3	1873.2	1741.4	1744.8	1671.1	1675.1	1688.3
22°	1636.3	1725.9	1689.4	1560.4	1395.4	1471.3	1405.1	1409.6	1421.1
23°	1276.0	1369.1	1402.2	1245.8	1066.5	1217.8	1165.3	1168.7	1176.1
24°	947.2	1078.5	1137.9	958.6	767.9	979.7	950.0	954.0	946.0
25°	673.7	827.9	910.6	708.0	515.0	761.1	754.8	761.1	685.7
26°	455.0	624.0	718.2	496.7	318.6	562.4	600.6	586.9	444.8
27°	291.2	474.4	552.1	324.9	202.1	387.1	448.2	444.2	255.2
28°	205.0	329.4	407.6	199.8	155.9	243.2	320.3	292.3	163.3
29°	173.0	214.1	284.3	142.2	126.7	143.9	214.7	170.7	133.6
30°	140.5	142.2	186.7	114.8	102.2	102.8	137.0	111.9	108.5
32.5°	85.6	85.1	80.5	67.4	59.9	59.9	66.8	64.5	63.9
35°	47.4	52.0	48.0	40.5	29.1	36.0	40.5	38.3	32.0
37.5°	25.7	30.3	33.1	22.3	16.0	21.1	27.4	22.3	18.3
40°	13.1	16.6	23.4	12.6	8.6	12.0	18.8	12.6	10.3
42.5°	6.9	9.1	14.8	6.9	4.0	6.9	12.0	6.9	5.1
45°	3.4	4.6	8.0	3.4	2.3	3.4	6.3	4.0	2.9
47.5°	1.7	2.3	4.0	1.7	0.6	1.7	3.4	1.7	1.7
50°	0.6	1.1	2.3	0.6	0.6	0.6	1.7	1.1	1.1
52.5°	0.6	0.6	1.1	0.6	0.0	0.6	1.1	0.6	1.1
55°	0.6	0.6	0.6	0.0	0.0	0.6	0.6	0.6	1.1
57.5°	0.6	0.6	0.6	0.0	0.0	0.0	0.6	0.6	1.1
60°	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.6	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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







62.5°	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0



(END OF REPORT)