

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: P1212299

Luminaire Tested: **LDSQA4A30927D010TE LAR35FL 4LSQAL1H**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P1212299
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: LDSQA4A30927D010TE LAR35FL 4LSQAL1H
Description: PORTFOLIO 4" SQUARE LENSED ADJUSTABLE, SELF-FLANGED, 35° FLOOD
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

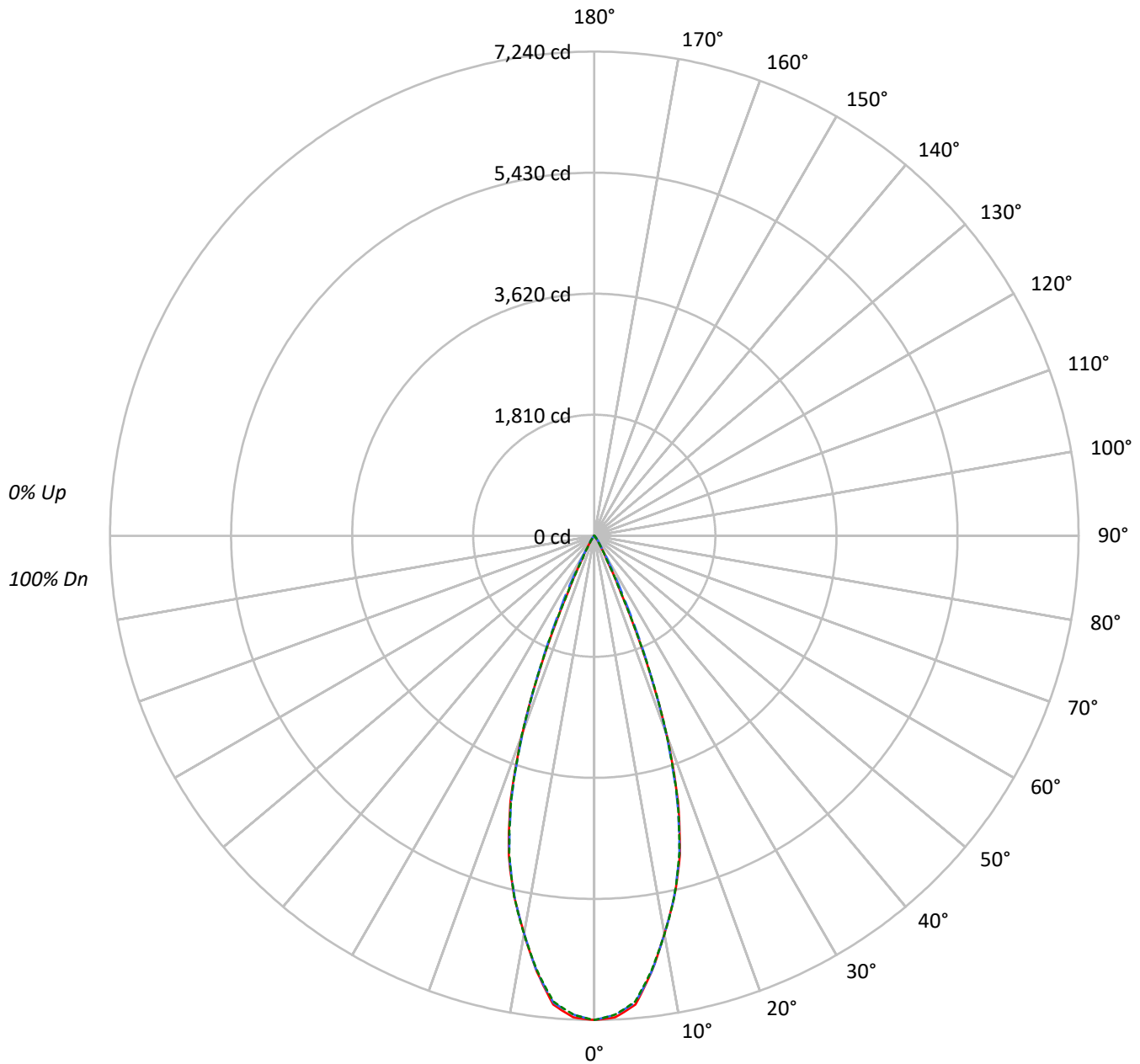
Lumens per Lamp: N/A
Luminaire Lumens: 2611.3 lumens
Efficiency: N/A
Efficacy: 65.6 lumens/watt
Spacing Criteria (0/90/45): 0.63 / 0.63 / 0.57
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 39.8
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



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10		50	30	10			50	30	10			50
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	115	113	111	109	112	110	109	107		106	105	104			103	102	101			99
2	111	107	104	101	109	105	102	100		102	100	98			99	97	96			97
3	107	102	98	95	105	101	97	94		98	95	93			96	94	92			94
4	103	98	93	90	102	97	93	90		95	91	89			93	90	88			91
5	100	94	89	86	98	93	89	86		91	88	85			90	87	84			88
6	97	90	86	82	95	89	85	82		88	84	82			87	83	81			85
7	94	87	82	79	92	86	82	79		85	81	78			84	81	78			83
8	91	84	79	76	90	83	79	76		82	78	76			81	78	75			80
9	88	81	76	73	87	80	76	73		79	76	73			79	75	73			78
10	85	78	74	71	84	78	73	71		77	73	71			76	73	70			76

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	701397	701397	701397
5°	684433	681409	680125
10°	594361	594243	594951
15°	495767	493140	492889
20°	325196	322608	325443
25°	99440	125778	99055
30°	24878	30102	24341
35°	8054	12441	7924
40°	3781	5906	3326
45°	1973	2466	1466
50°	1070	1266	708
55°	608	794	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°	636.0	24.4
10°-20°	1318.0	50.5
20°-30°	575.5	22.0
30°-40°	62.8	2.4
40°-50°	13.0	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°	2529.6	96.9
0°-40°	2592.4	99.3
0°-60°	2608.9	99.9
0°-90°	2611.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2611.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7240	7240	7240	7240	7240	
5°	7038	7019	7007	7025	6994	637
15°	4943	4922	4917	4924	4914	1322
25°	930	1147	1177	1158	927	538
35°	68	81	105	80	67	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°	7240.2	7240.2	7240.2	7240.2	7240.2
2.5°	7207.9	7181.7	7167.4	7198.4	7167.4
5°	7038.2	7019.0	7007.1	7025.0	6993.9
7.5°	6573.0	6553.9	6570.6	6570.6	6555.1
10°	6042.1	6031.4	6040.9	6066.1	6048.1
12.5°	5526.7	5518.4	5522.0	5548.3	5528.0
15°	4943.2	4921.7	4917.0	4924.1	4914.5
17.5°	4166.0	4133.7	4113.4	4130.2	4134.9
20°	3154.4	3154.4	3129.3	3143.7	3156.8
22.5°	2017.3	2063.8	2068.7	2066.2	2057.8
25°	930.3	1146.7	1176.7	1157.5	926.7
27.5°	376.6	465.1	578.8	479.5	363.5
30°	222.4	234.4	269.1	230.7	217.6
32.5°	117.2	141.1	165.0	139.9	113.6
35°	68.1	81.4	105.2	80.1	67.0
37.5°	44.3	51.4	70.5	51.4	41.8
40°	29.9	33.4	46.7	32.3	26.3
42.5°	20.3	22.7	29.9	20.3	16.7
45°	14.4	15.6	18.0	13.1	10.7
47.5°	9.6	10.7	12.0	8.4	7.1
50°	7.1	7.1	8.4	6.0	4.7
52.5°	4.7	6.0	6.0	3.6	3.6
55°	3.6	3.6	4.7	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

Classified

Scaled Data Report

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— 0°-180° - - 45°-225° - - - 90°-270°

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