

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: P1212341

Luminaire Tested: **LDSQA4A30940D010TE LAR35FL 4LSQAL1H**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P1212341
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: LDSQA4A30940D010TE LAR35FL 4LSQAL1H
Description: PORTFOLIO 4" SQUARE LENSED ADJUSTABLE, SELF-FLANGED, 35° FLOOD
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

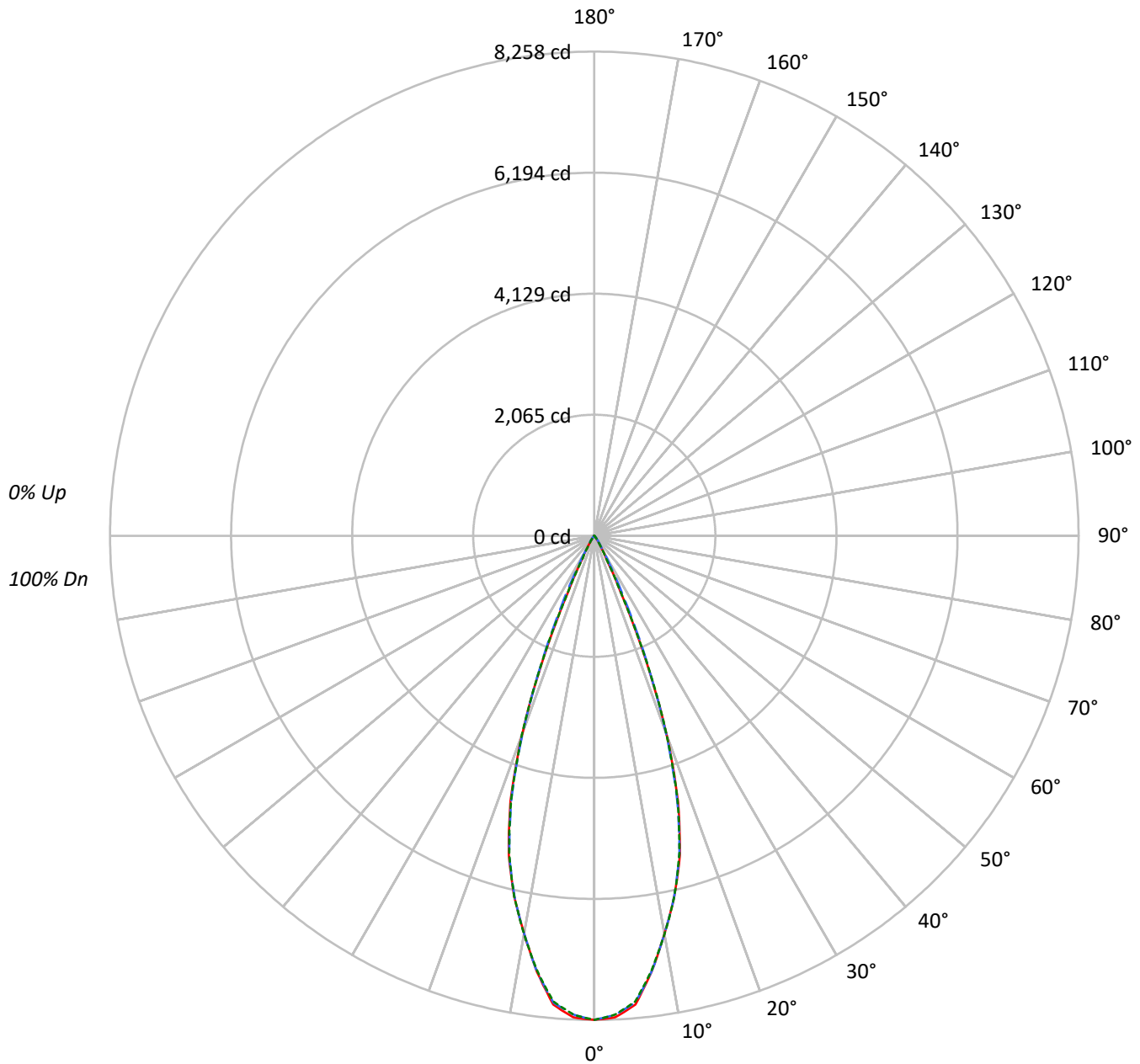
Lumens per Lamp: N/A
Luminaire Lumens: 2978.3 lumens
Efficiency: N/A
Efficacy: 74.8 lumens/watt
Spacing Criteria (0/90/45): 0.63 / 0.63 / 0.57
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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°	799978	799978	799978
5°	780628	777176	775717
10°	677896	677759	678565
15°	565451	562442	562171
20°	370897	367948	371175
25°	113421	143447	112983
30°	28379	34330	27775
35°	9189	14192	9035
40°	4312	6728	3807
45°	2247	2809	1685
50°	1221	1432	814
55°	692	912	456
60°	523	523	523
65°	321	321	321
70°	397	397	397
75°	0	524	0
80°	0	0	0
85°	0	0	0

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	725.4	24.4
10°-20°	1503.2	50.5
20°-30°	656.4	22.0
30°-40°	71.6	2.4
40°-50°	14.8	0.5
50°-60°	4.1	0.1
60°-70°	1.7	0.1
70°-80°	1.0	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°	2885.1	96.9
0°-40°	2956.7	99.3
0°-60°	2975.6	99.9
0°-90°	2978.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2978.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8258	8258	8258	8258	8258	
5°	8027	8006	7992	8012	7977	727
15°	5638	5613	5608	5616	5605	1508
25°	1061	1308	1342	1320	1057	614
35°	78	93	120	91	76	61
45°	16	18	20	15	12	14
55°	4	4	5	3	3	4
65°	1	1	1	1	1	2
75°	0	1	1	0	0	1
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°	8257.8	8257.8	8257.8	8257.8	8257.8
2.5°	8221.0	8191.0	8174.6	8210.1	8174.6
5°	8027.4	8005.6	7991.9	8012.4	7976.9
7.5°	7496.9	7475.1	7494.2	7494.2	7476.4
10°	6891.3	6879.0	6889.9	6918.5	6898.1
12.5°	6303.5	6294.0	6298.1	6328.1	6304.8
15°	5638.0	5613.4	5608.0	5616.2	5605.3
17.5°	4751.5	4714.7	4691.5	4710.6	4716.1
20°	3597.7	3597.7	3569.1	3585.5	3600.4
22.5°	2300.8	2353.9	2359.4	2356.6	2347.1
25°	1061.1	1307.9	1342.0	1320.2	1057.0
27.5°	429.6	530.5	660.0	546.9	414.6
30°	253.7	267.4	306.9	263.2	248.3
32.5°	133.7	160.9	188.3	159.6	129.6
35°	77.7	92.8	120.0	91.4	76.4
37.5°	50.5	58.6	80.5	58.6	47.7
40°	34.1	38.2	53.2	36.8	30.1
42.5°	23.2	25.9	34.1	23.2	19.1
45°	16.4	17.7	20.5	15.0	12.3
47.5°	11.0	12.3	13.7	9.5	8.1
50°	8.1	8.1	9.5	6.8	5.4
52.5°	5.4	6.8	6.8	4.1	4.1
55°	4.1	4.1	5.4	2.7	2.7
57.5°	4.1	4.1	4.1	2.7	2.7
60°	2.7	2.7	2.7	2.7	2.7
62.5°	1.4	2.7	2.7	1.4	1.4
65°	1.4	1.4	1.4	1.4	1.4
67.5°	1.4	1.4	1.4	1.4	1.4
70°	1.4	1.4	1.4	1.4	1.4
72.5°	1.4	1.4	1.4	1.4	1.4
75°	0.0	1.4	1.4	0.0	0.0
77.5°	0.0	1.4	1.4	1.4	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°

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