

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: P1212337

Luminaire Tested: **LDSQA4A30940D010TE LAR25NF 4LSQAL1H**

Issue Date: 3/3/2020

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

**Test Information**

Test Method: LM-41-14
Report Number: P1212337
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26797)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDSQA4A30940D010TE LAR25NF 4LSQAL1H
Description: PORTFOLIO 4" SQUARE LENSED ADJUSTABLE, SELF-FLANGED, 25° NARROW FLOOD
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

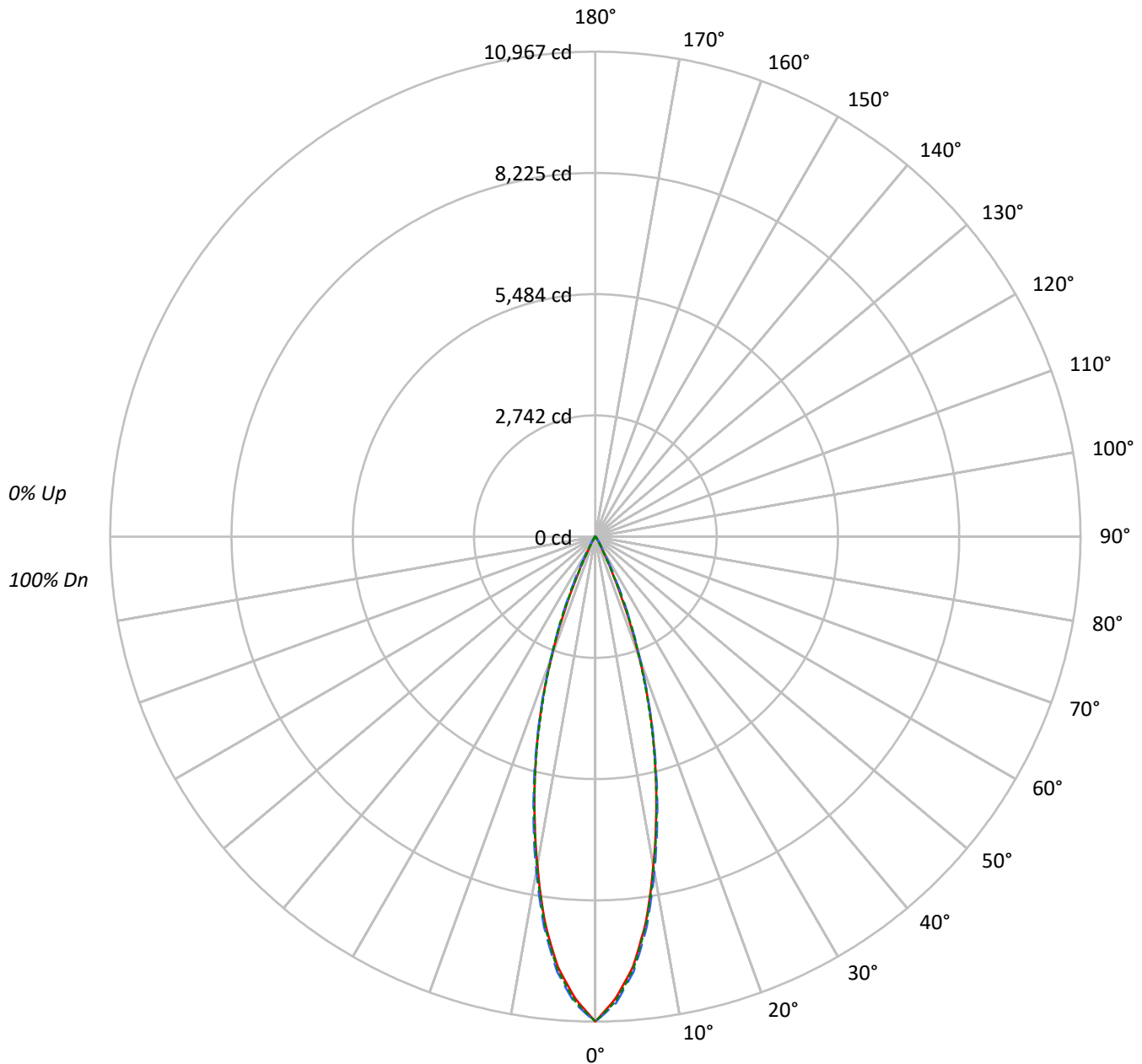
Lumens per Lamp: N/A
Luminaire Lumens: 2925.2 lumens
Efficiency: N/A
Efficacy: 73.5 lumens/watt
Spacing Criteria (0/90/45): 0.48 / 0.48 / 0.5
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1062423	1062423	1062423
5°	948834	960776	954805
10°	742732	756022	746755
15°	521573	525404	518694
20°	299340	305536	299062
25°	94758	124655	97826
30°	25169	31277	24252
35°	8550	15492	8716
40°	3807	6222	3807
45°	2055	2809	1685
50°	1221	1432	814
55°	692	692	456
60°	523	523	271
65°	321	321	321
70°	397	397	397
75°	0	524	524
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	869.9	29.7
10°-20°	1418.3	48.5
20°-30°	549.3	18.8
30°-40°	67.3	2.3
40°-50°	14.2	0.5
50°-60°	3.8	0.1
60°-70°	1.5	0.1
70°-80°	0.8	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°	2837.6	97.0
0°-40°	2904.9	99.3
0°-60°	2922.8	99.9
0°-90°	2925.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2925.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10967	10967	10967	10967	10967	
5°	9757	9899	9880	9820	9818	862
15°	5200	5270	5239	5200	5172	1410
25°	886	1110	1166	1146	915	497
35°	72	87	131	86	74	55
45°	15	16	20	15	12	12
55°	4	4	4	3	3	4
65°	1	1	1	1	1	2
75°	0	1	1	1	1	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°	10966.9	10966.9	10966.9	10966.9	10966.9
2.5°	10454.1	10600.0	10566.0	10497.7	10515.4
5°	9757.1	9899.0	9879.9	9819.9	9818.5
7.5°	8773.8	8912.9	8896.5	8824.3	8817.4
10°	7550.4	7677.2	7685.5	7580.4	7591.3
12.5°	6355.7	6459.3	6463.4	6391.1	6376.1
15°	5200.5	5270.0	5238.7	5200.5	5171.8
17.5°	4061.6	4076.6	4069.8	4013.9	3993.4
20°	2903.6	2969.2	2963.7	2916.0	2900.9
22.5°	1808.5	1927.1	1981.7	1938.1	1961.2
25°	886.5	1110.2	1166.2	1145.7	915.2
27.5°	360.0	470.5	586.5	463.8	347.8
30°	225.0	245.5	279.6	235.9	216.8
32.5°	118.6	148.7	189.6	144.5	118.6
35°	72.3	87.2	131.0	85.9	73.7
37.5°	46.3	54.6	76.4	54.6	47.7
40°	30.1	35.5	49.2	35.5	30.1
42.5°	20.5	23.2	31.4	23.2	19.1
45°	15.0	16.4	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	4.1	2.7	2.7
57.5°	4.1	2.7	2.7	2.7	2.7
60°	2.7	2.7	2.7	1.4	1.4
62.5°	1.4	1.4	1.4	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	0.0
75°	0.0	1.4	1.4	1.4	1.4
77.5°	0.0	0.0	0.0	0.0	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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