

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: P1219478

Luminaire Tested: **LDSQA4A15930D010TE LAR25NF 4LSQA1H**

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: P1219478
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26785)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDSQA4A15930D010TE LAR25NF 4LSQA1H
Description: PORTFOLIO 4" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,
SELF-FLANGED, 25° NARROW FLOOD
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

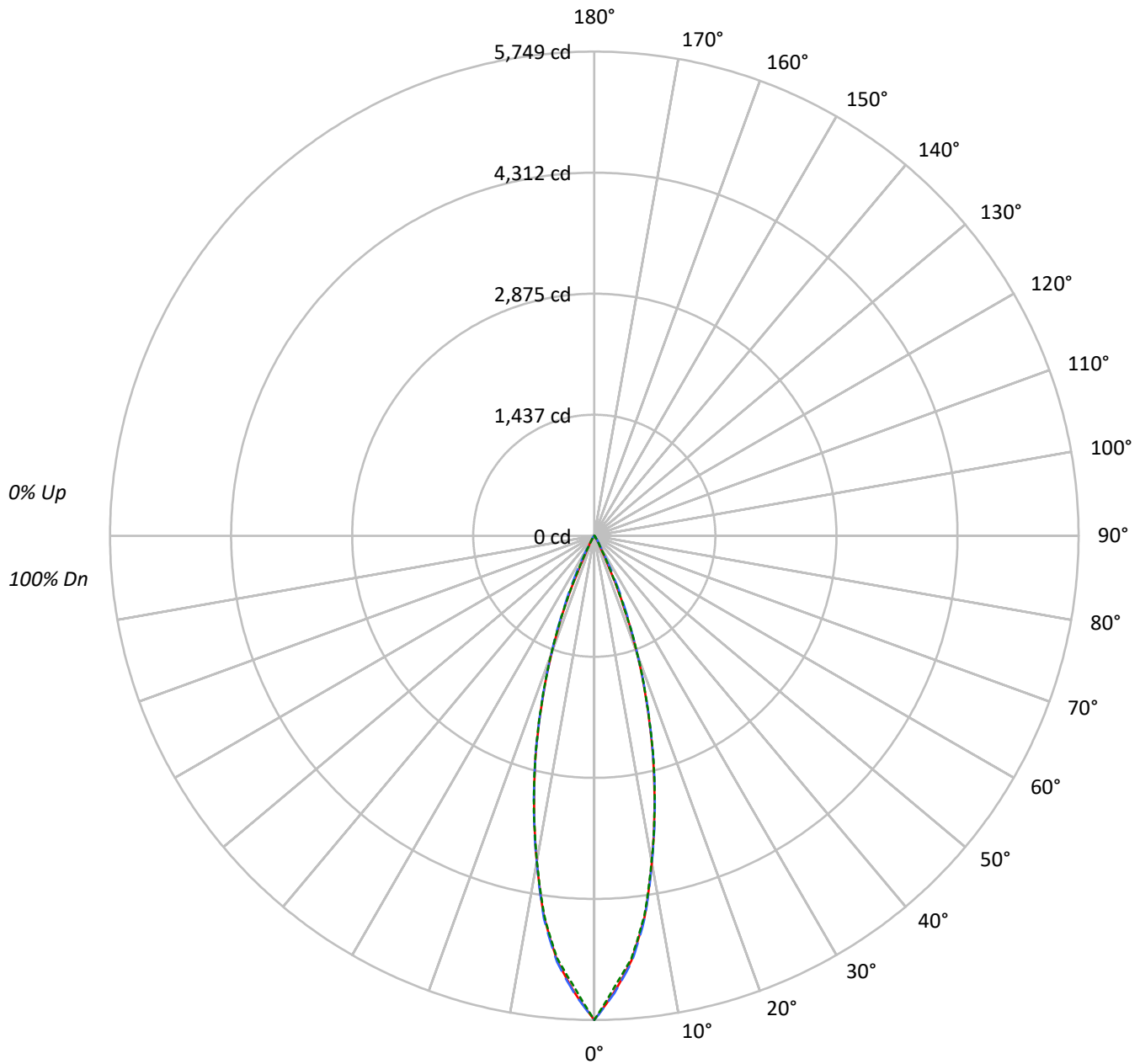
Lumens per Lamp: N/A
Luminaire Lumens: 1490.7 lumens
Efficiency: N/A
Efficacy: 73.1 lumens/watt
Spacing Criteria (0/90/45): 0.47 / 0.47 / 0.49
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 20.4
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	108	105	102	109	106	103	101		103	101	99			100	98	97			97
3	108	103	99	96	106	102	98	96		99	96	94			97	95	93			95
4	104	99	95	92	103	98	94	91		96	93	90			94	91	89			92
5	101	95	91	88	100	94	90	88		93	89	87			91	88	86			90
6	98	92	88	84	97	91	87	84		90	86	84			88	85	83			87
7	95	89	84	81	94	88	84	81		87	83	81			86	83	80			85
8	92	86	82	79	91	85	81	79		84	81	78			84	80	78			83
9	90	83	79	76	89	83	79	76		82	78	76			81	78	76			80
10	87	81	77	74	87	80	76	74		80	76	74			79	76	73			78

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	556966	556966	556966
5°	492334	494017	489825
10°	386958	387400	385758
15°	269376	270139	270339
20°	152804	153804	154340
25°	41185	62328	46337
30°	10202	13938	10493
35°	3028	6386	3264
40°	1214	2112	1214
45°	617	877	534
50°	392	392	196
55°	321	220	101
60°	252	116	116
65°	138	138	138
70°	170	170	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	451.1	30.3
10°-20°	733.5	49.2
20°-30°	272.6	18.3
30°-40°	27.1	1.8
40°-50°	4.5	0.3
50°-60°	1.2	0.1
60°-70°	0.6	0.0
70°-80°	0.1	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°	1457.2	97.7
0°-40°	1484.2	99.6
0°-60°	1490.0	100.0
0°-90°	1490.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1490.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5749	5749	5749	5749	5749	
5°	5063	5113	5080	5140	5037	448
15°	2686	2716	2694	2738	2696	727
25°	385	566	583	545	434	241
35°	26	32	54	33	28	21
45°	4	5	6	5	4	4
55°	2	1	1	1	1	2
65°	1	1	1	1	1	1
75°	0	1	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°
0°	5749.3	5749.3	5749.3	5749.3	5749.3
2.5°	5425.6	5454.5	5436.5	5484.7	5368.5
5°	5062.8	5113.4	5080.1	5139.8	5037.0
7.5°	4564.4	4617.1	4583.0	4640.8	4549.0
10°	3933.7	3972.9	3938.2	3994.1	3921.5
12.5°	3303.0	3342.1	3316.5	3367.9	3310.1
15°	2685.9	2716.0	2693.5	2737.8	2695.5
17.5°	2059.0	2087.9	2067.3	2103.4	2071.2
20°	1482.2	1507.3	1491.9	1522.1	1497.1
22.5°	920.3	987.1	998.0	1000.6	928.0
25°	385.3	565.8	583.1	544.6	433.5
27.5°	158.6	208.1	277.4	219.0	167.0
30°	91.2	105.9	124.6	109.2	93.8
32.5°	45.6	59.1	81.6	62.3	48.2
35°	25.6	32.1	54.0	33.4	27.6
37.5°	15.4	18.6	26.9	19.3	16.0
40°	9.6	11.6	16.7	12.2	9.6
42.5°	6.4	7.7	10.3	7.7	6.4
45°	4.5	5.1	6.4	5.1	3.9
47.5°	3.2	3.2	3.9	3.2	2.6
50°	2.6	2.6	2.6	1.9	1.3
52.5°	1.9	1.9	1.9	1.3	1.3
55°	1.9	1.3	1.3	1.3	0.6
57.5°	1.3	1.3	1.3	0.6	0.6
60°	1.3	1.3	0.6	0.6	0.6
62.5°	0.6	0.6	0.6	0.6	0.6
65°	0.6	0.6	0.6	0.6	0.6
67.5°	0.6	0.6	0.6	0.6	0.6
70°	0.6	0.6	0.6	0.6	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.6	0.0	0.0	0.0
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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