

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: P1219450

Luminaire Tested: **LDSQA4A10950D010TE 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: P1219450
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: LDSQA4A10950D010TE LAR25NF 4LSQA1H
Description: PORTFOLIO 4" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,
SELF-FLANGED, 25° NARROW FLOOD
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

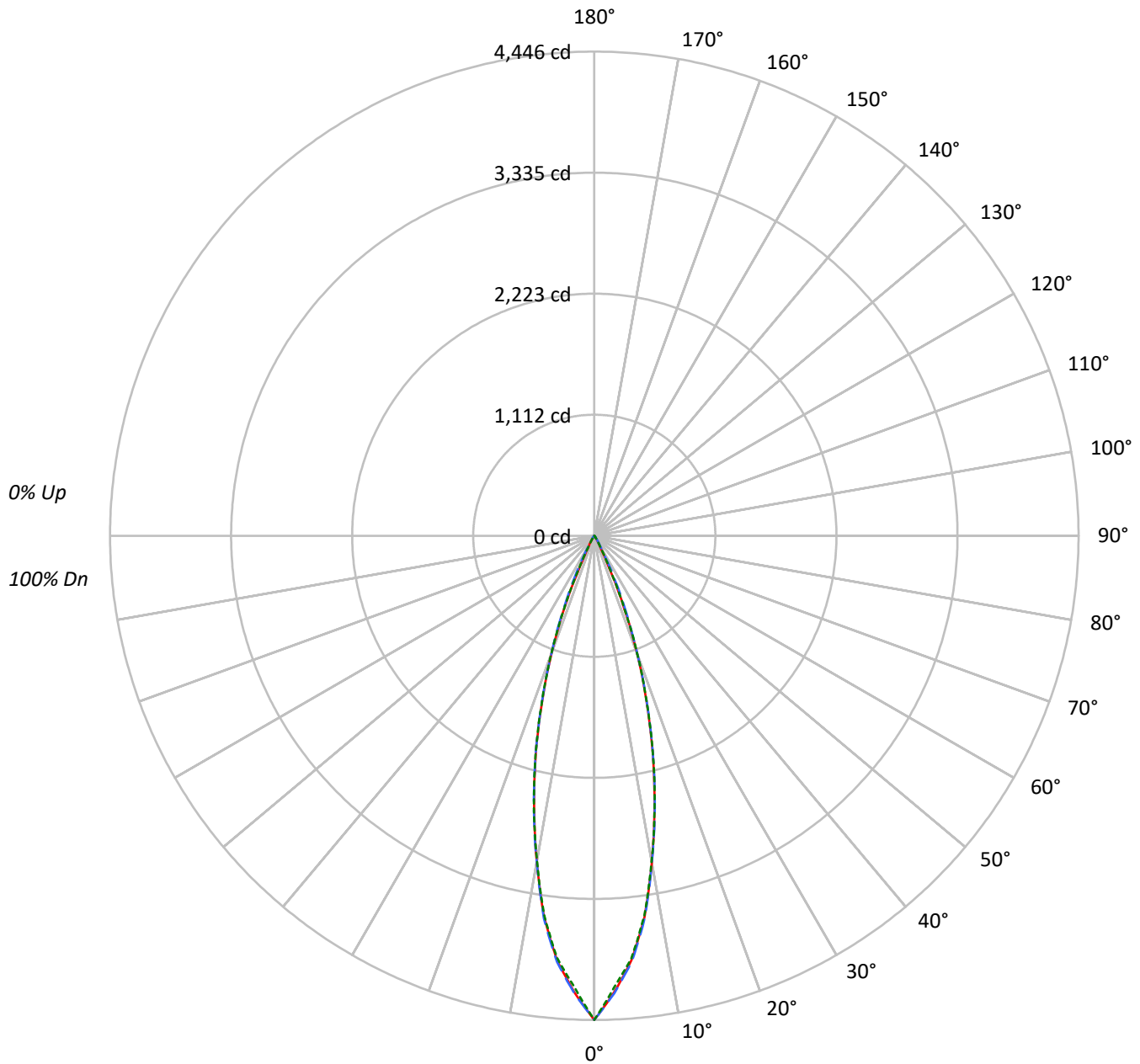
Lumens per Lamp: N/A
Luminaire Lumens: 1152.8 lumens
Efficiency: N/A
Efficacy: 93.0 lumens/watt
Spacing Criteria (0/90/45): 0.47 / 0.47 / 0.49
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 12.4
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°	430679	430679	430679
5°	380697	382000	378761
10°	299222	299556	298287
15°	208298	208890	209040
20°	118165	118938	119340
25°	31853	48197	35830
30°	7886	10772	8110
35°	2353	4932	2519
40°	948	1631	948
45°	466	685	411
50°	301	301	151
55°	253	169	84
60°	194	97	97
65°	115	115	115
70°	142	142	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	348.8	30.3
10°-20°	567.2	49.2
20°-30°	210.8	18.3
30°-40°	20.9	1.8
40°-50°	3.5	0.3
50°-60°	1.0	0.1
60°-70°	0.5	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°	1126.8	97.7
0°-40°	1147.7	99.6
0°-60°	1152.2	99.9
0°-90°	1152.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1152.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4446	4446	4446	4446	4446	
5°	3915	3954	3928	3974	3895	347
15°	2077	2100	2083	2117	2084	562
25°	298	438	451	421	335	186
35°	20	25	42	26	21	16
45°	3	4	5	4	3	3
55°	2	1	1	1	0	1
65°	0	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	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4445.7	4445.7	4445.7	4445.7	4445.7
2.5°	4195.4	4217.7	4203.9	4241.1	4151.2
5°	3914.8	3954.1	3928.2	3974.4	3894.9
7.5°	3529.4	3570.1	3543.8	3588.5	3517.5
10°	3041.8	3072.1	3045.2	3088.5	3032.3
12.5°	2554.1	2584.4	2564.5	2604.3	2559.5
15°	2076.9	2100.2	2082.8	2117.0	2084.3
17.5°	1592.1	1614.5	1598.6	1626.5	1601.6
20°	1146.2	1165.5	1153.7	1177.0	1157.6
22.5°	711.7	763.3	771.8	773.8	717.6
25°	298.0	437.5	450.9	421.1	335.2
27.5°	122.6	160.9	214.6	169.3	129.2
30°	70.5	82.0	96.3	84.4	72.5
32.5°	35.3	45.7	63.0	48.2	37.2
35°	19.9	24.9	41.7	25.8	21.3
37.5°	12.0	14.4	20.9	14.9	12.4
40°	7.5	8.9	12.9	9.5	7.5
42.5°	5.0	5.9	7.9	5.9	5.0
45°	3.4	4.0	5.0	4.0	3.0
47.5°	2.5	2.5	3.0	2.5	2.0
50°	2.0	2.0	2.0	1.5	1.0
52.5°	1.5	1.5	1.5	1.0	1.0
55°	1.5	1.0	1.0	1.0	0.5
57.5°	1.0	1.0	1.0	0.5	0.5
60°	1.0	1.0	0.5	0.5	0.5
62.5°	0.5	0.5	0.5	0.5	0.5
65°	0.5	0.5	0.5	0.5	0.5
67.5°	0.5	0.5	0.5	0.5	0.5
70°	0.5	0.5	0.5	0.5	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.5	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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