

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: P1212265

Luminaire Tested: **LDSQA4A25935D010TE 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: P1212265
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: LDSQA4A25935D010TE LAR25NF 4LSQA1H
Description: PORTFOLIO 4" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,
SELF-FLANGED, 25° NARROW FLOOD
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

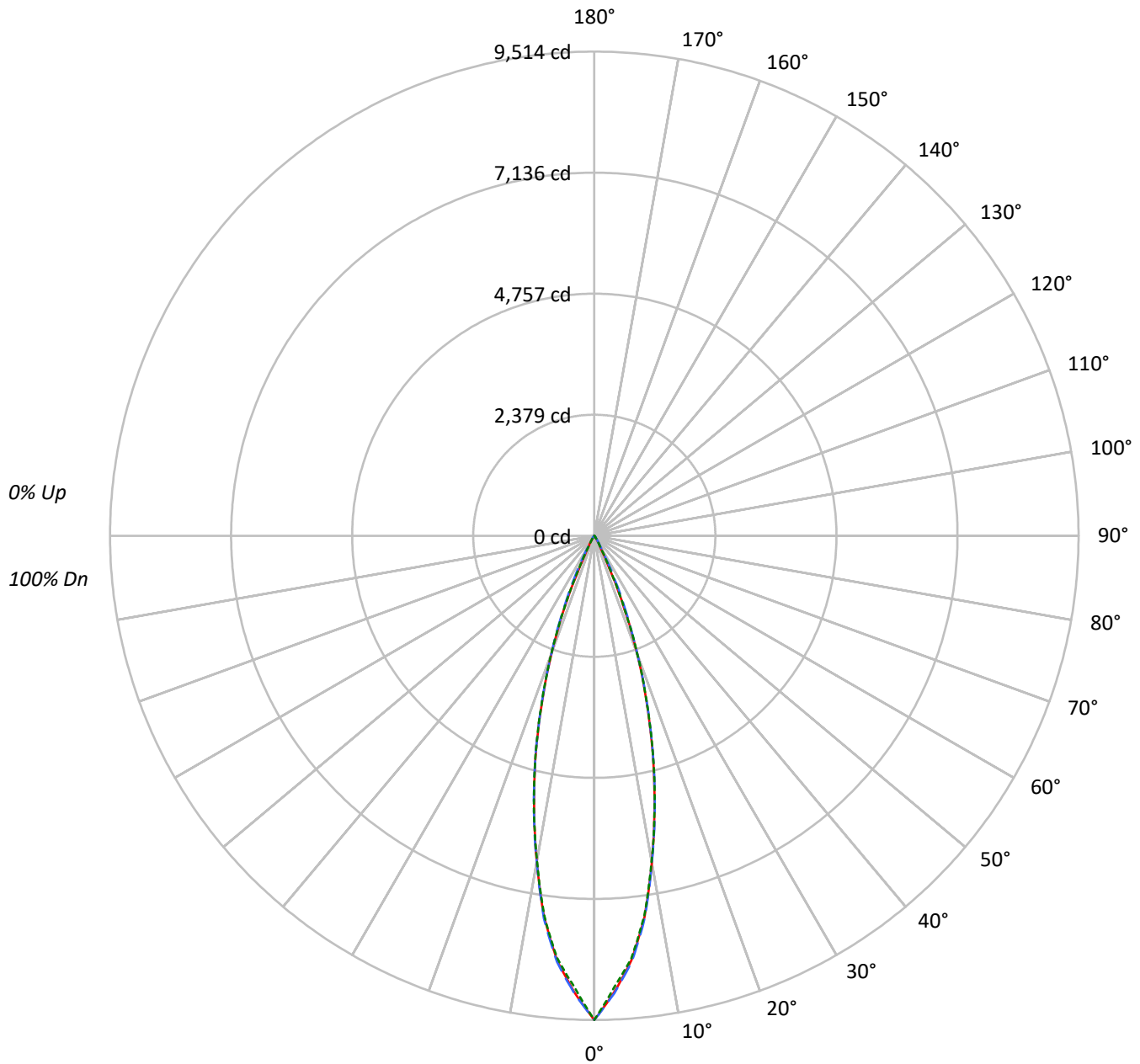
Lumens per Lamp: N/A
Luminaire Lumens: 2466.9 lumens
Efficiency: N/A
Efficacy: 79.8 lumens/watt
Spacing Criteria (0/90/45): 0.47 / 0.47 / 0.49
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 30.9
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		0
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		100
1	115	113	111	109	113	111	109	107	107	105	104		103	102	101		97
2	111	108	105	102	109	106	103	101	103	101	99		100	98	97		93
3	108	103	99	96	106	102	98	96	99	96	94		97	95	93		90
4	104	99	95	92	103	98	94	91	96	93	90		94	91	89		87
5	101	95	91	88	100	94	90	88	93	89	87		91	88	86		84
6	98	92	88	84	97	91	87	84	90	86	84		88	85	83		82
7	95	89	84	81	94	88	84	81	87	83	81		86	83	80		79
8	92	86	82	79	91	85	81	79	84	81	78		84	80	78		77
9	90	83	79	76	89	83	79	76	82	78	76		81	78	76		74
10	87	81	77	74	87	80	76	74	80	76	74		79	76	73		72

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	921673	921673	921673
5°	814713	817494	810570
10°	640329	641067	638352
15°	445761	447035	447356
20°	252876	254515	255391
25°	68164	103149	76683
30°	16880	23055	17361
35°	5026	10561	5416
40°	2011	3503	2011
45°	1014	1466	877
50°	648	648	316
55°	540	355	186
60°	407	213	213
65°	252	252	252
70°	312	312	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	746.4	30.3
10°-20°	1213.8	49.2
20°-30°	451.2	18.3
30°-40°	44.8	1.8
40°-50°	7.5	0.3
50°-60°	2.1	0.1
60°-70°	1.1	0.0
70°-80°	0.2	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°	2411.3	97.7
0°-40°	2456.1	99.6
0°-60°	2465.6	99.9
0°-90°	2466.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2466.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9514	9514	9514	9514	9514	
5°	8378	8462	8406	8505	8335	742
15°	4445	4494	4457	4531	4460	1202
25°	638	936	965	901	717	399
35°	42	53	89	55	46	34
45°	7	8	11	8	6	6
55°	3	2	2	2	1	3
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°	9514.0	9514.0	9514.0	9514.0	9514.0
2.5°	8978.3	9026.2	8996.3	9076.1	8883.7
5°	8377.9	8461.8	8406.5	8505.4	8335.3
7.5°	7553.1	7640.3	7583.9	7679.6	7527.6
10°	6509.4	6574.3	6516.9	6609.4	6489.3
12.5°	5465.9	5530.6	5488.1	5573.1	5477.5
15°	4444.6	4494.5	4457.3	4530.6	4460.5
17.5°	3407.3	3455.1	3421.1	3480.5	3427.4
20°	2452.9	2494.3	2468.8	2518.8	2477.3
22.5°	1523.0	1633.4	1651.5	1655.8	1535.7
25°	637.7	936.3	965.0	901.2	717.4
27.5°	262.5	344.3	459.1	362.4	276.3
30°	150.9	175.4	206.1	180.7	155.2
32.5°	75.4	97.7	134.9	103.1	79.7
35°	42.5	53.1	89.3	55.3	45.8
37.5°	25.5	30.8	44.6	31.9	26.5
40°	15.9	19.1	27.7	20.2	15.9
42.5°	10.7	12.7	17.0	12.7	10.7
45°	7.4	8.4	10.7	8.4	6.4
47.5°	5.3	5.3	6.4	5.3	4.3
50°	4.3	4.3	4.3	3.2	2.1
52.5°	3.2	3.2	3.2	2.1	2.1
55°	3.2	2.1	2.1	2.1	1.1
57.5°	2.1	2.1	2.1	1.1	1.1
60°	2.1	2.1	1.1	1.1	1.1
62.5°	1.1	1.1	1.1	1.1	1.1
65°	1.1	1.1	1.1	1.1	1.1
67.5°	1.1	1.1	1.1	1.1	1.1
70°	1.1	1.1	1.1	1.1	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	1.1	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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Scaled Data Report



— 0°-180° - - 45°-225° - - - 90°-270°

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