

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: P1219576

Luminaire Tested: **LDSQA4A35950D010TE 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: P1219576
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: LDSQA4A35950D010TE 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

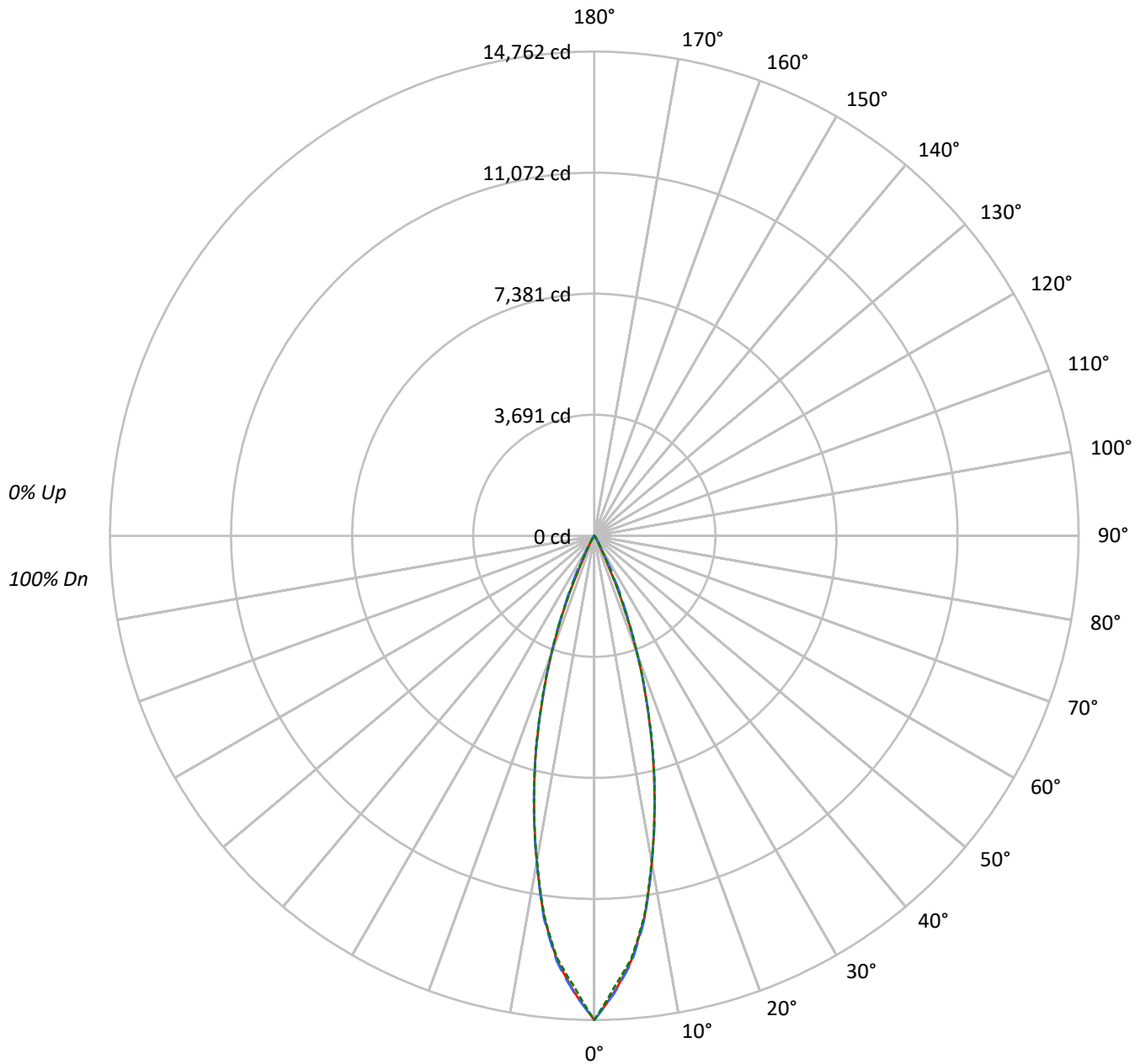
Lumens per Lamp: N/A
Luminaire Lumens: 3827.7 lumens
Efficiency: N/A
Efficacy: 80.2 lumens/watt
Spacing Criteria (0/90/45): 0.47 / 0.47 / 0.49
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 47.7
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°	1430075	1430075	1430075
5°	1264104	1268441	1257695
10°	993565	994687	990486
15°	691639	693625	694127
20°	392360	394907	396268
25°	105757	160057	118979
30°	26198	35785	26948
35°	7794	16379	8385
40°	3136	5413	3136
45°	1562	2261	1356
50°	995	995	482
55°	828	540	287
60°	620	329	329
65°	390	390	390
70°	482	482	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1158.1	30.3
10°-20°	1883.3	49.2
20°-30°	700.0	18.3
30°-40°	69.5	1.8
40°-50°	11.6	0.3
50°-60°	3.1	0.1
60°-70°	1.7	0.0
70°-80°	0.3	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°	3741.4	97.7
0°-40°	3810.9	99.6
0°-60°	3825.7	99.9
0°-90°	3827.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3827.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	14762	14762	14762	14762	14762	
5°	12999	13130	13044	13197	12933	1151
15°	6896	6974	6916	7030	6921	1866
25°	989	1453	1497	1398	1113	619
35°	66	82	138	86	71	53
45°	11	13	16	13	10	10
55°	5	3	3	3	2	4
65°	2	2	2	2	2	2
75°	0	2	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°	14762.0	14762.0	14762.0	14762.0	14762.0
2.5°	13930.9	14005.1	13958.9	14082.5	13784.2
5°	12999.1	13129.5	13043.7	13197.0	12933.2
7.5°	11719.7	11854.8	11767.3	11915.7	11680.0
10°	10100.3	10200.8	10111.7	10255.2	10069.0
12.5°	8480.9	8581.5	8515.5	8647.4	8499.0
15°	6896.2	6973.7	6916.0	7029.8	6921.0
17.5°	5286.8	5361.0	5308.1	5400.5	5318.1
20°	3805.9	3870.3	3830.6	3908.2	3843.8
22.5°	2363.1	2534.6	2562.6	2569.1	2383.0
25°	989.4	1452.8	1497.4	1398.4	1113.1
27.5°	407.4	534.4	712.4	562.3	428.7
30°	234.2	272.1	319.9	280.3	240.9
32.5°	117.1	151.7	209.4	159.8	123.7
35°	65.9	82.4	138.5	85.7	70.9
37.5°	39.6	47.8	69.3	49.5	41.3
40°	24.8	29.6	42.8	31.3	24.8
42.5°	16.5	19.9	26.3	19.9	16.5
45°	11.4	13.3	16.5	13.3	9.9
47.5°	8.2	8.2	9.9	8.2	6.6
50°	6.6	6.6	6.6	4.9	3.2
52.5°	4.9	4.9	4.9	3.2	3.2
55°	4.9	3.2	3.2	3.2	1.7
57.5°	3.2	3.2	3.2	1.7	1.7
60°	3.2	3.2	1.7	1.7	1.7
62.5°	1.7	1.7	1.7	1.7	1.7
65°	1.7	1.7	1.7	1.7	1.7
67.5°	1.7	1.7	1.7	1.7	1.7
70°	1.7	1.7	1.7	1.7	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	1.7	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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