

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: P1219534

Luminaire Tested: **LDSQA4A20950D010TE 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: P1219534
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: LDSQA4A20950D010TE 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

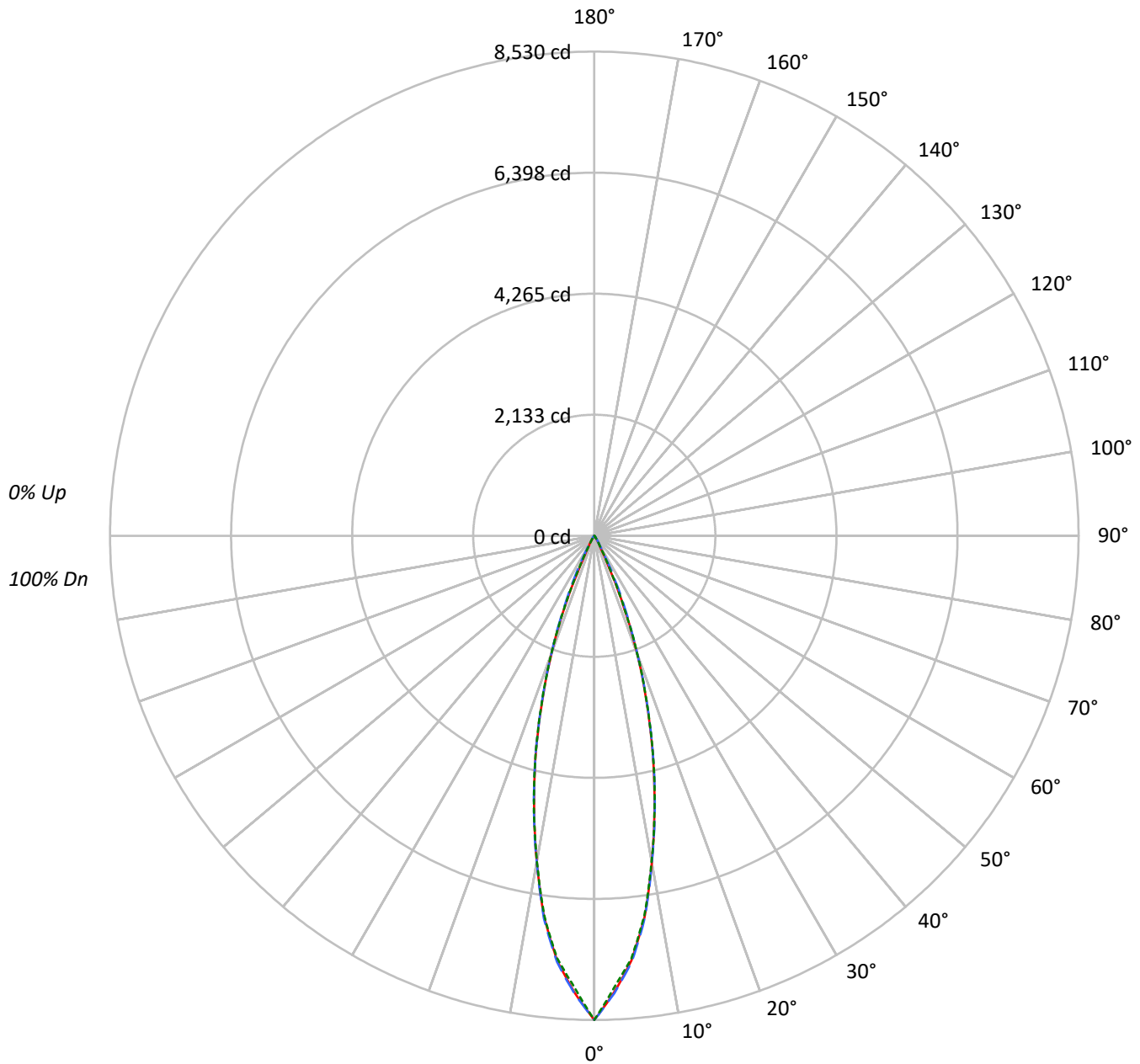
Lumens per Lamp: N/A
Luminaire Lumens: 2211.9 lumens
Efficiency: N/A
Efficacy: 76.8 lumens/watt
Spacing Criteria (0/90/45): 0.47 / 0.47 / 0.49
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 28.8
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	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°	826376	826376	826376
5°	730479	732978	726774
10°	574146	574795	572355
15°	399677	400820	401101
20°	226732	228206	228989
25°	61120	92492	68752
30°	15135	20683	15571
35°	4506	9473	4849
40°	1821	3136	1821
45°	932	1302	781
50°	573	573	286
55°	473	321	169
60°	368	194	194
65°	229	229	229
70°	283	283	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	669.2	30.3
10°-20°	1088.3	49.2
20°-30°	404.5	18.3
30°-40°	40.2	1.8
40°-50°	6.7	0.3
50°-60°	1.8	0.1
60°-70°	1.0	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°	2162.0	97.7
0°-40°	2202.2	99.6
0°-60°	2210.7	99.9
0°-90°	2211.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2211.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8530	8530	8530	8530	8530	
5°	7512	7587	7537	7626	7474	665
15°	3985	4030	3996	4062	3999	1078
25°	572	840	865	808	643	357
35°	38	48	80	50	41	31
45°	7	8	10	8	6	6
55°	3	2	2	2	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°	8530.3	8530.3	8530.3	8530.3	8530.3
2.5°	8050.1	8093.0	8066.2	8137.7	7965.4
5°	7511.7	7587.0	7537.4	7626.0	7473.6
7.5°	6772.3	6850.5	6799.9	6885.7	6749.4
10°	5836.6	5894.6	5843.2	5926.1	5818.4
12.5°	4900.7	4958.9	4920.8	4997.0	4911.2
15°	3985.1	4029.8	3996.5	4062.1	3999.3
17.5°	3054.9	3098.0	3067.4	3120.7	3073.2
20°	2199.3	2236.4	2213.6	2258.4	2221.2
22.5°	1365.5	1464.5	1480.8	1484.6	1377.0
25°	571.8	839.6	865.3	808.1	643.2
27.5°	235.4	308.7	411.6	324.9	247.7
30°	135.3	157.2	184.9	162.0	139.2
32.5°	67.7	87.7	121.1	92.6	71.4
35°	38.1	47.6	80.1	49.5	41.0
37.5°	22.8	27.7	40.0	28.5	23.8
40°	14.4	17.3	24.8	18.1	14.4
42.5°	9.5	11.4	15.2	11.4	9.5
45°	6.8	7.6	9.5	7.6	5.7
47.5°	4.8	4.8	5.7	4.8	3.8
50°	3.8	3.8	3.8	2.8	1.9
52.5°	2.8	2.8	2.8	1.9	1.9
55°	2.8	1.9	1.9	1.9	1.0
57.5°	1.9	1.9	1.9	1.0	1.0
60°	1.9	1.9	1.0	1.0	1.0
62.5°	1.0	1.0	1.0	1.0	1.0
65°	1.0	1.0	1.0	1.0	1.0
67.5°	1.0	1.0	1.0	1.0	1.0
70°	1.0	1.0	1.0	1.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	1.0	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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