

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: P1212321

Luminaire Tested: **LDSQA4A30935D010TE 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: P1212321
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: LDSQA4A30935D010TE 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

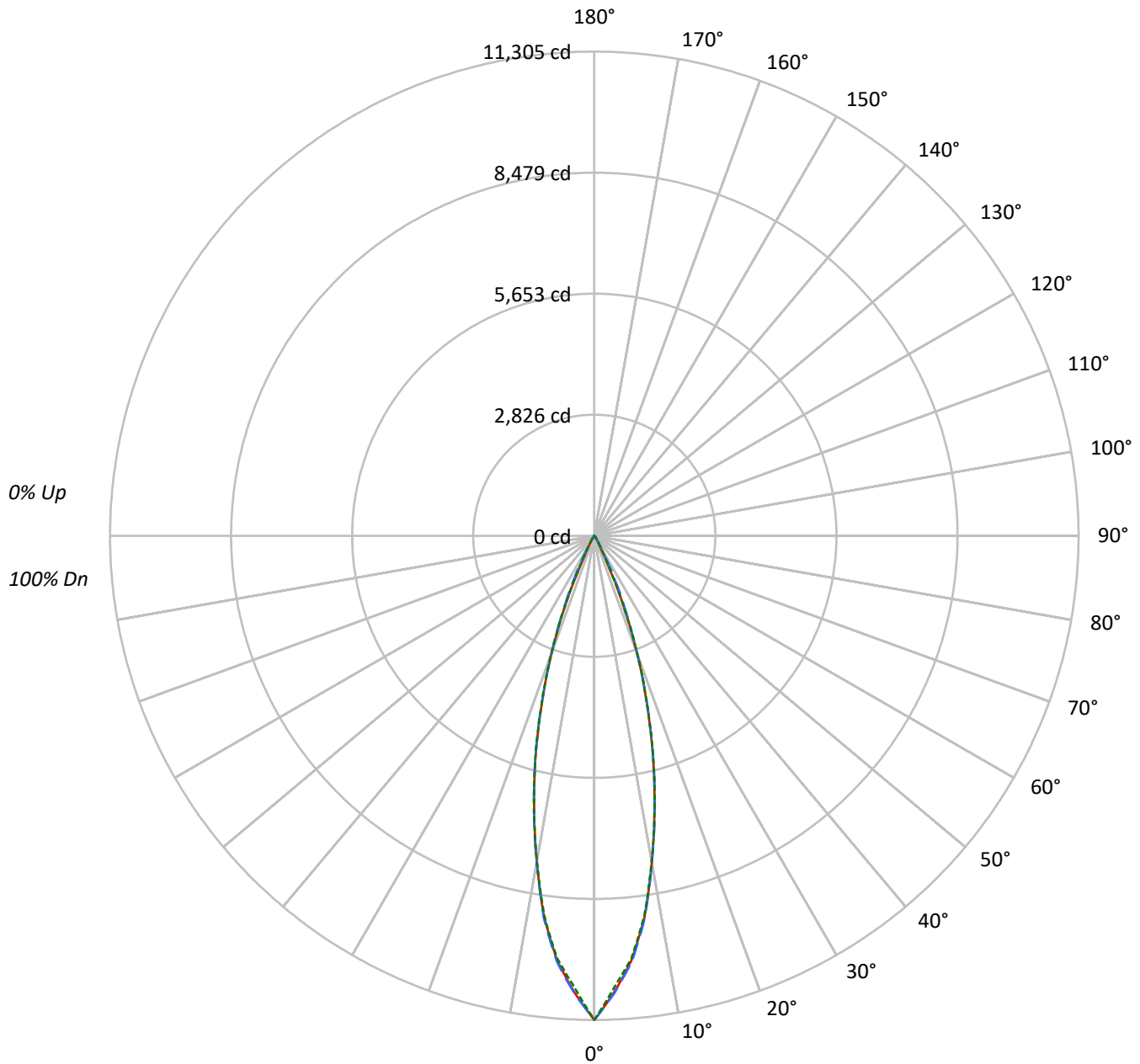
Lumens per Lamp: N/A
Luminaire Lumens: 2931.3 lumens
Efficiency: N/A
Efficacy: 73.7 lumens/watt
Spacing Criteria (0/90/45): 0.47 / 0.47 / 0.49
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 39.8
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°	1095206	1095206	1095206
5°	968108	971414	963197
10°	760901	761776	758540
15°	529687	531201	531582
20°	300484	302443	303484
25°	81001	122571	91124
30°	20057	27406	20627
35°	5972	12548	6434
40°	2403	4161	2403
45°	1206	1740	1041
50°	769	769	377
55°	642	422	203
60°	484	233	233
65°	275	275	275
70°	340	340	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	886.9	30.3
10°-20°	1442.3	49.2
20°-30°	536.1	18.3
30°-40°	53.2	1.8
40°-50°	8.9	0.3
50°-60°	2.4	0.1
60°-70°	1.2	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°	2865.3	97.7
0°-40°	2918.5	99.6
0°-60°	2929.9	100.0
0°-90°	2931.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2931.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11305	11305	11305	11305	11305	
5°	9955	10055	9989	10107	9905	882
15°	5281	5341	5296	5384	5300	1429
25°	758	1113	1147	1071	852	474
35°	50	63	106	66	54	41
45°	9	10	13	10	8	8
55°	4	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°	11305.3	11305.3	11305.3	11305.3	11305.3
2.5°	10668.8	10725.6	10690.3	10784.9	10556.3
5°	9955.3	10055.1	9989.3	10106.8	9904.8
7.5°	8975.3	9078.9	9011.9	9125.5	8945.0
10°	7735.1	7812.1	7744.0	7853.8	7711.1
12.5°	6495.0	6572.0	6521.5	6622.5	6508.9
15°	5281.4	5340.7	5296.5	5383.7	5300.3
17.5°	4048.8	4105.6	4065.2	4135.9	4072.7
20°	2914.7	2964.0	2933.7	2993.0	2943.8
22.5°	1809.7	1941.0	1962.5	1967.6	1824.8
25°	757.8	1112.6	1146.7	1070.9	852.5
27.5°	311.9	409.2	545.6	430.6	328.4
30°	179.3	208.4	245.0	214.7	184.4
32.5°	89.6	116.2	160.3	122.5	94.7
35°	50.5	63.2	106.1	65.7	54.4
37.5°	30.3	36.6	53.0	37.9	31.5
40°	19.0	22.7	32.9	24.0	19.0
42.5°	12.7	15.1	20.2	15.1	12.7
45°	8.8	10.1	12.7	10.1	7.6
47.5°	6.3	6.3	7.6	6.3	5.1
50°	5.1	5.1	5.1	3.8	2.5
52.5°	3.8	3.8	3.8	2.5	2.5
55°	3.8	2.5	2.5	2.5	1.2
57.5°	2.5	2.5	2.5	1.2	1.2
60°	2.5	2.5	1.2	1.2	1.2
62.5°	1.2	1.2	1.2	1.2	1.2
65°	1.2	1.2	1.2	1.2	1.2
67.5°	1.2	1.2	1.2	1.2	1.2
70°	1.2	1.2	1.2	1.2	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	1.2	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

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— 0°-180° - - 45°-225° - - - 90°-270°

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