

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: P1219480

Luminaire Tested: **LDSQA4A15930D010TE LAR25NF 4LSQAL1H**

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: P1219480
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26797)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDSQA4A15930D010TE LAR25NF 4LSQAL1H
Description: PORTFOLIO 4" SQUARE LENSED ADJUSTABLE, SELF-FLANGED, 25° NARROW FLOOD
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

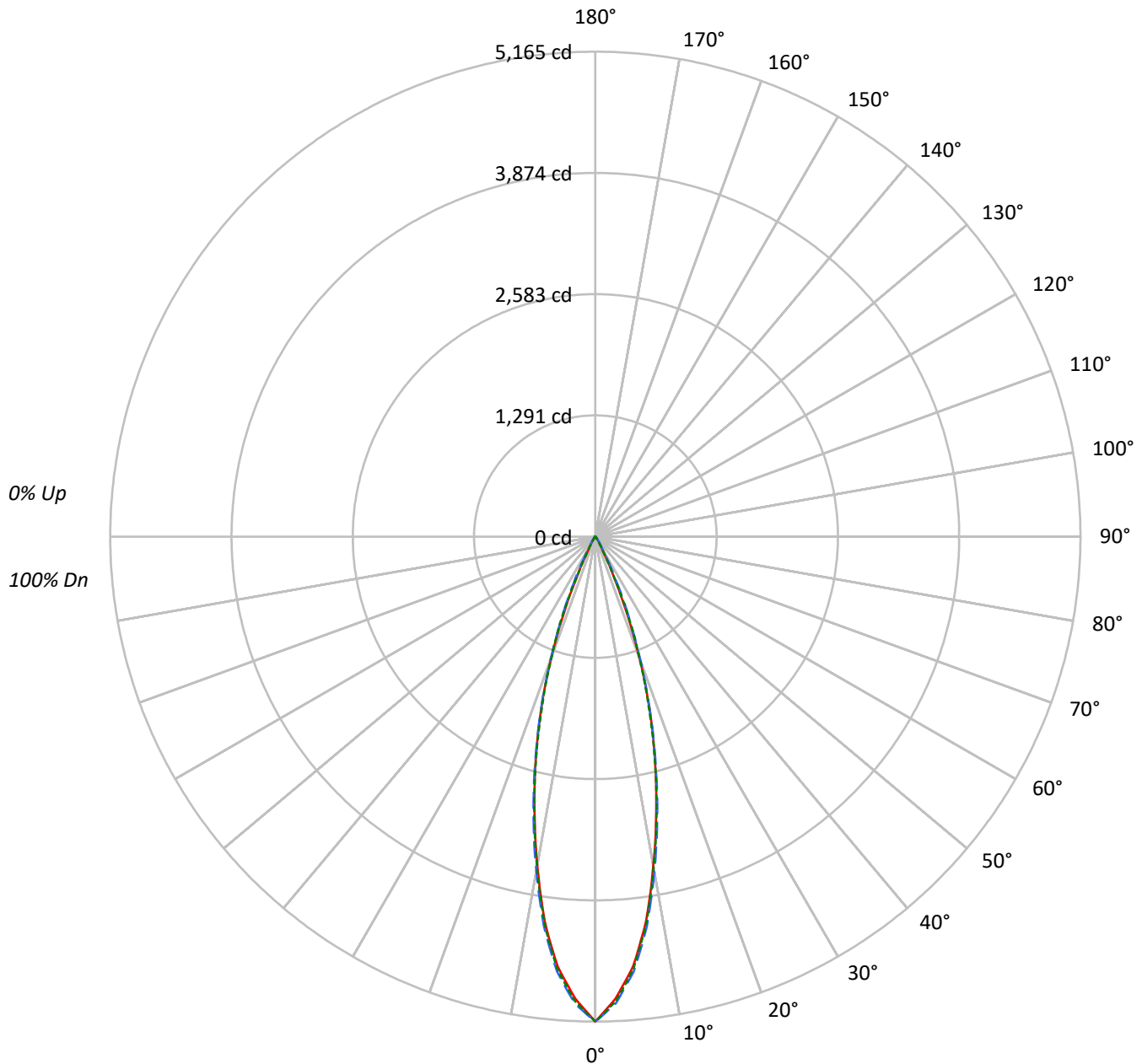
Lumens per Lamp: N/A
Luminaire Lumens: 1377.6 lumens
Efficiency: N/A
Efficacy: 67.5 lumens/watt
Spacing Criteria (0/90/45): 0.48 / 0.48 / 0.5
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 20.4
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	107	104	102	109	106	103	101		103	100	99			100	98	96			97
3	107	103	99	96	106	101	98	95		99	96	94			97	94	92			95
4	104	99	95	91	102	97	94	91		95	92	90			94	91	89			92
5	101	95	91	87	99	94	90	87		92	89	86			91	88	86			89
6	98	91	87	84	97	91	87	84		89	86	83			88	85	83			87
7	95	88	84	81	94	88	84	81		87	83	80			85	82	80			85
8	92	85	81	78	91	85	81	78		84	80	78			83	80	77			82
9	89	83	78	76	89	82	78	76		81	78	75			81	77	75			80
10	87	80	76	73	86	80	76	73		79	76	73			78	75	73			78

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	500400	500400	500400
5°	446901	452522	449712
10°	349823	356079	351722
15°	245657	247463	244303
20°	140990	143907	140856
25°	44637	58715	46070
30°	11857	14732	11432
35°	4033	7297	4092
40°	1796	2934	1796
45°	959	1315	781
50°	588	678	392
55°	321	321	220
60°	252	252	116
65°	138	138	138
70°	170	170	170
75°	0	225	225
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	409.7	29.7
10°-20°	668.0	48.5
20°-30°	258.7	18.8
30°-40°	31.7	2.3
40°-50°	6.7	0.5
50°-60°	1.8	0.1
60°-70°	0.6	0.0
70°-80°	0.4	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°	1336.5	97.0
0°-40°	1368.2	99.3
0°-60°	1376.6	99.9
0°-90°	1377.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1377.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5165	5165	5165	5165	5165	
5°	4596	4662	4653	4625	4624	406
15°	2449	2482	2467	2449	2436	664
25°	418	523	549	540	431	234
35°	34	41	62	40	35	26
45°	7	8	10	7	6	6
55°	2	2	2	1	1	2
65°	1	1	1	1	1	1
75°	0	1	1	1	1	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°	5165.4	5165.4	5165.4	5165.4	5165.4
2.5°	4923.9	4992.6	4976.5	4944.4	4952.8
5°	4595.6	4662.4	4653.4	4625.2	4624.5
7.5°	4132.5	4198.0	4190.3	4156.2	4153.0
10°	3556.2	3616.0	3619.8	3570.3	3575.5
12.5°	2993.5	3042.3	3044.2	3010.2	3003.2
15°	2449.4	2482.1	2467.4	2449.4	2435.9
17.5°	1913.0	1920.1	1916.8	1890.5	1880.9
20°	1367.6	1398.5	1395.9	1373.4	1366.3
22.5°	851.8	907.7	933.4	912.8	923.8
25°	417.6	522.9	549.3	539.6	431.0
27.5°	169.6	221.7	276.2	218.4	163.8
30°	106.0	115.6	131.7	111.2	102.2
32.5°	55.9	70.0	89.3	68.1	55.9
35°	34.1	41.1	61.7	40.5	34.6
37.5°	21.9	25.7	35.9	25.7	22.5
40°	14.2	16.7	23.2	16.7	14.2
42.5°	9.6	10.9	14.8	10.9	9.0
45°	7.0	7.7	9.6	7.0	5.7
47.5°	5.1	5.7	6.4	4.5	3.9
50°	3.9	3.9	4.5	3.2	2.6
52.5°	2.6	3.2	3.2	1.9	1.9
55°	1.9	1.9	1.9	1.3	1.3
57.5°	1.9	1.3	1.3	1.3	1.3
60°	1.3	1.3	1.3	0.6	0.6
62.5°	0.6	0.6	0.6	0.6	0.6
65°	0.6	0.6	0.6	0.6	0.6
67.5°	0.6	0.6	0.6	0.6	0.6
70°	0.6	0.6	0.6	0.6	0.6
72.5°	0.6	0.6	0.6	0.6	0.0
75°	0.0	0.6	0.6	0.6	0.6
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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