

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: P1219472

Luminaire Tested: **LDSQA4A15930D010TE LAR15SP 4LSQA1H-LSF-20**

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: P1219472
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26829)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDSQA4A15930D010TE LAR15SP 4LSQA1H-LSF-20
Description: PORTFOLIO 4" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,
SELF-FLANGED, 15° SPOT WITH SOLITE LENS
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

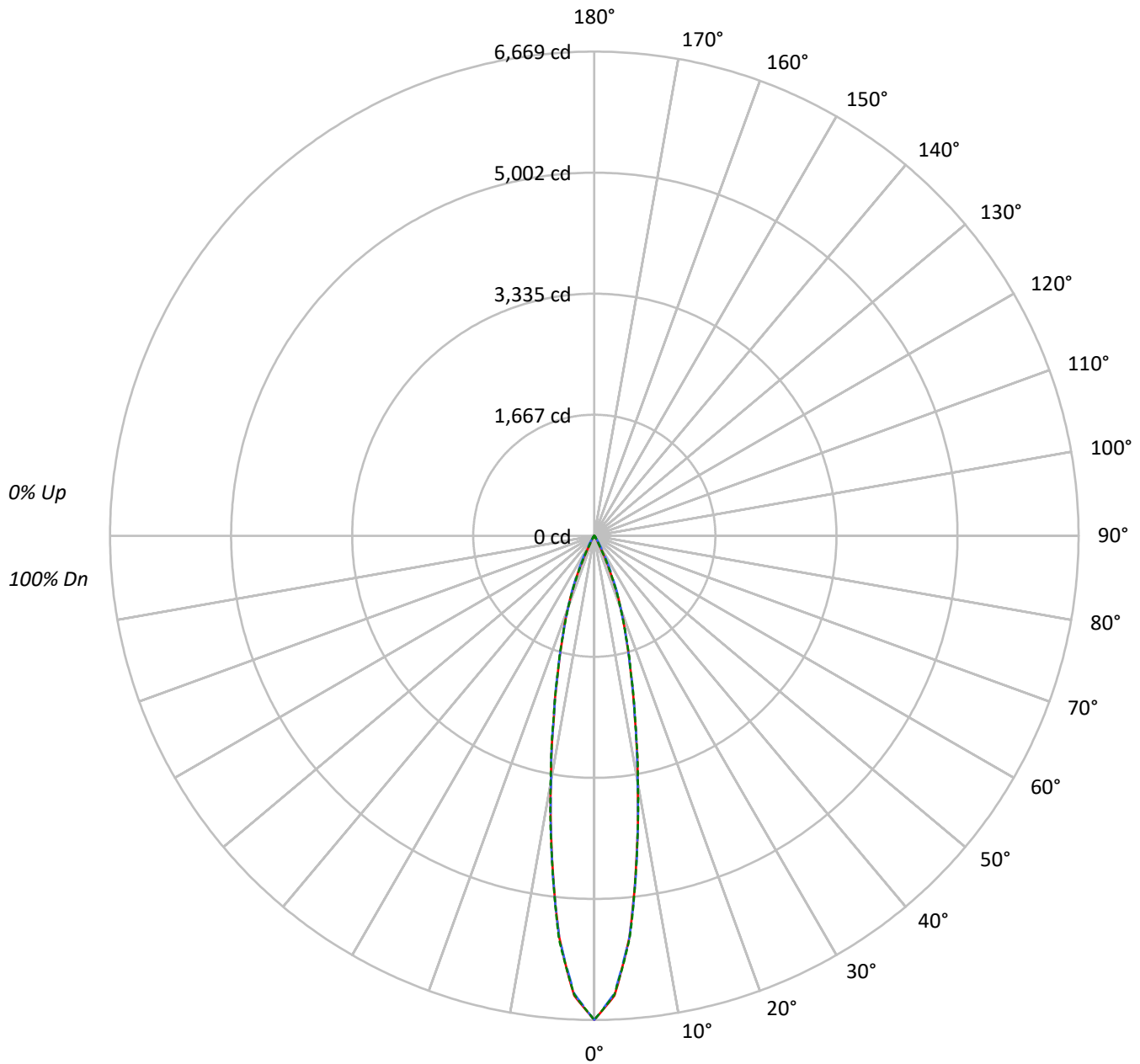
Lumens per Lamp: N/A
Luminaire Lumens: 1264.6 lumens
Efficiency: N/A
Efficacy: 62.0 lumens/watt
Spacing Criteria (0/90/45): 0.35 / 0.35 / 0.39
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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					0
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	108		107	106	104			103	102	101			97
2	111	108	105	102	109	106	104	101		103	101	99			100	99	97			94
3	108	103	100	97	106	102	99	96		100	97	95			97	95	93			91
4	105	99	96	93	103	98	95	92		96	93	91			95	92	90			88
5	102	96	92	89	100	95	91	89		93	90	88			92	89	87			85
6	99	93	89	86	98	92	88	85		91	87	85			89	87	84			83
7	96	90	86	83	95	89	85	83		88	85	82			87	84	82			80
8	94	87	83	80	93	87	83	80		86	82	80			85	82	80			78
9	91	85	81	78	90	84	80	78		83	80	78			83	80	77			76
10	89	82	78	76	88	82	78	76		81	78	76			81	78	75			74

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	646033	646033	646033
5°	539401	539401	541959
10°	337920	337163	340566
15°	192843	193936	194257
20°	109175	108845	108381
25°	40982	52996	41869
30°	8401	17741	8468
35°	3335	5771	3264
40°	1707	2517	1631
45°	1137	1315	959
50°	678	678	482
55°	321	439	220
60°	252	252	116
65°	138	138	138
70°	170	170	170
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	460.8	36.4
10°-20°	548.1	43.3
20°-30°	218.5	17.3
30°-40°	27.6	2.2
40°-50°	6.8	0.5
50°-60°	2.0	0.2
60°-70°	0.6	0.1
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°	1227.4	97.1
0°-40°	1254.9	99.2
0°-60°	1263.7	99.9
0°-90°	1264.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1264.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6669	6669	6669	6669	6669	
5°	5547	5598	5547	5552	5573	460
15°	1923	1934	1934	1934	1937	546
25°	383	471	496	451	392	197
35°	28	34	49	33	28	21
45°	8	8	10	8	7	6
55°	2	2	3	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°	6668.7	6668.7	6668.7	6668.7	6668.7
2.5°	6341.2	6375.2	6309.8	6316.2	6324.5
5°	5546.8	5597.6	5546.8	5551.9	5573.1
7.5°	4463.4	4507.7	4478.8	4491.6	4468.6
10°	3435.2	3451.2	3427.5	3439.1	3462.1
12.5°	2583.0	2600.9	2583.6	2584.3	2594.5
15°	1922.8	1934.4	1933.7	1933.7	1936.9
17.5°	1436.0	1451.4	1434.7	1436.0	1439.9
20°	1059.0	1069.3	1055.8	1053.9	1051.3
22.5°	722.5	744.3	752.7	741.7	707.1
25°	383.4	470.7	495.8	451.4	391.7
27.5°	154.1	234.4	289.7	229.3	167.6
30°	75.1	102.1	158.6	104.6	75.7
32.5°	44.4	55.2	86.7	54.5	43.7
35°	28.2	34.1	48.8	32.8	27.6
37.5°	18.6	22.5	30.2	21.9	18.0
40°	13.5	15.4	19.9	14.8	12.9
42.5°	10.3	10.9	13.5	10.9	9.6
45°	8.3	8.3	9.6	7.7	7.0
47.5°	6.4	6.4	6.4	5.7	4.5
50°	4.5	4.5	4.5	3.9	3.2
52.5°	3.2	3.2	3.2	2.6	1.9
55°	1.9	1.9	2.6	1.9	1.3
57.5°	1.9	1.3	1.9	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	0.0	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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