

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: P1212303

Luminaire Tested: **LDSQA4A30930D010TE LAR15SP 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: P1212303
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26794)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDSQA4A30930D010TE LAR15SP 4LSQA1H
Description: PORTFOLIO 4" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,
SELF-FLANGED, 15° SPOT
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

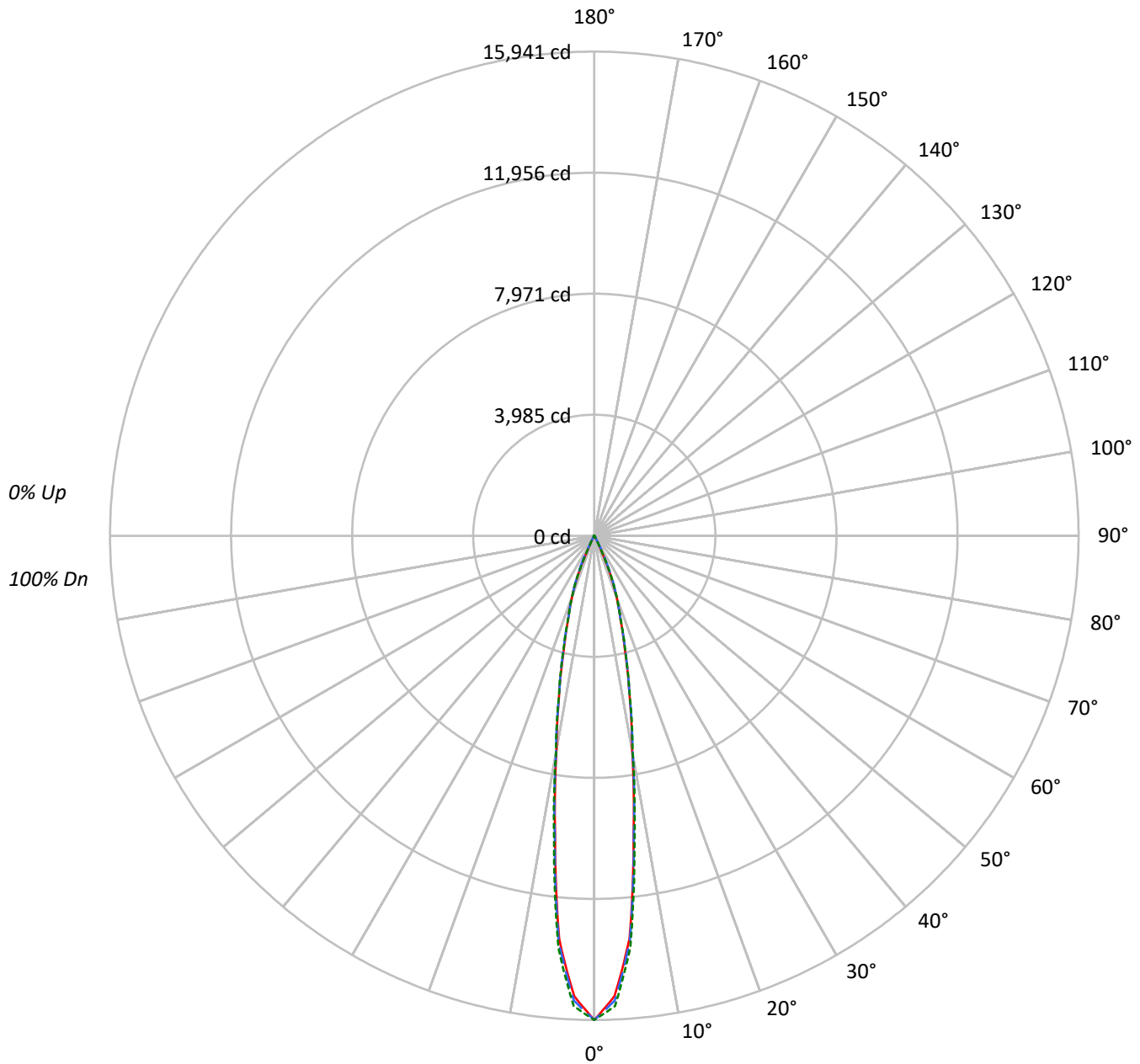
Lumens per Lamp: N/A
Luminaire Lumens: 2617.0 lumens
Efficiency: N/A
Efficacy: 65.8 lumens/watt
Spacing Criteria (0/90/45): 0.32 / 0.32 / 0.36
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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	110	113	111	110	108		107	106	105			104	103	102			100
2	112	108	105	103	110	107	104	102		104	102	100			101	99	98			98
3	108	104	101	98	107	103	100	97		100	98	96			98	96	94			96
4	105	100	97	94	104	99	96	93		97	95	92			96	93	91			94
5	103	97	93	90	101	96	93	90		95	92	89			93	91	89			92
6	100	94	90	87	99	93	90	87		92	89	87			91	88	86			90
7	97	91	88	85	96	91	87	85		90	87	84			89	86	84			88
8	95	89	85	82	94	88	85	82		88	84	82			87	84	82			86
9	93	87	83	80	92	86	83	80		85	82	80			85	82	80			84
10	91	84	81	78	90	84	81	78		83	80	78			83	80	78			82

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1544252	1544252	1544252
5°	1294337	1305287	1324260
10°	704171	714638	717343
15°	389397	395665	397170
20°	220505	221154	222433
25°	60168	94266	59100
30°	9654	14687	9374
35°	3264	5476	3098
40°	1429	2213	1429
45°	849	1028	685
50°	558	558	377
55°	422	422	203
60°	233	233	233
65°	275	275	275
70°	340	340	340
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1062.5	40.6
10°-20°	1123.6	42.9
20°-30°	395.3	15.1
30°-40°	26.6	1.0
40°-50°	5.5	0.2
50°-60°	1.8	0.1
60°-70°	1.2	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°	2581.4	98.6
0°-40°	2608.1	99.7
0°-60°	2615.4	99.9
0°-90°	2617.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2617.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	15941	15941	15941	15941	15941	
5°	13310	13510	13423	13448	13618	1050
15°	3883	3948	3945	3936	3960	1113
25°	563	854	882	841	553	348
35°	28	34	46	34	26	21
45°	6	6	8	6	5	5
55°	2	2	2	1	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°	15940.6	15940.6	15940.6	15940.6	15940.6
2.5°	15175.0	15373.9	15323.8	15291.4	15500.2
5°	13310.0	13510.2	13422.6	13447.7	13617.7
7.5°	9895.3	10064.1	9974.1	10011.6	10141.7
10°	7158.4	7326.1	7264.8	7284.8	7292.3
12.5°	5337.3	5411.1	5362.3	5376.1	5401.1
15°	3882.6	3947.7	3945.1	3936.4	3960.1
17.5°	2849.4	2880.7	2849.4	2848.2	2864.4
20°	2138.9	2182.7	2145.2	2150.2	2157.6
22.5°	1437.2	1524.7	1509.8	1491.0	1470.9
25°	562.9	854.3	881.9	840.6	552.9
27.5°	161.4	266.5	379.0	261.4	156.4
30°	86.3	102.6	131.3	100.1	83.8
32.5°	46.3	58.8	75.0	57.5	45.0
35°	27.6	33.8	46.3	33.8	26.2
37.5°	17.5	21.2	28.8	21.2	17.5
40°	11.3	13.8	17.5	13.8	11.3
42.5°	8.7	10.1	11.3	8.7	7.5
45°	6.2	6.2	7.5	6.2	5.0
47.5°	5.0	5.0	5.0	3.7	3.7
50°	3.7	3.7	3.7	2.5	2.5
52.5°	2.5	2.5	2.5	2.5	2.5
55°	2.5	2.5	2.5	1.2	1.2
57.5°	2.5	1.2	1.2	1.2	1.2
60°	1.2	1.2	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	0.0
70°	1.2	1.2	1.2	1.2	1.2
72.5°	1.2	1.2	1.2	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

Scaled Data Report

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— 0°-180° - - 45°-225° - - - 90°-270°

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