

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: P1219574

Luminaire Tested: **LDSQA4A35950D010TE LAR15SP 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: P1219574
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26796)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDSQA4A35950D010TE LAR15SP 4LSQAL1H
Description: PORTFOLIO 4" SQUARE LENSED ADJUSTABLE, SELF-FLANGED, 15° SPOT
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

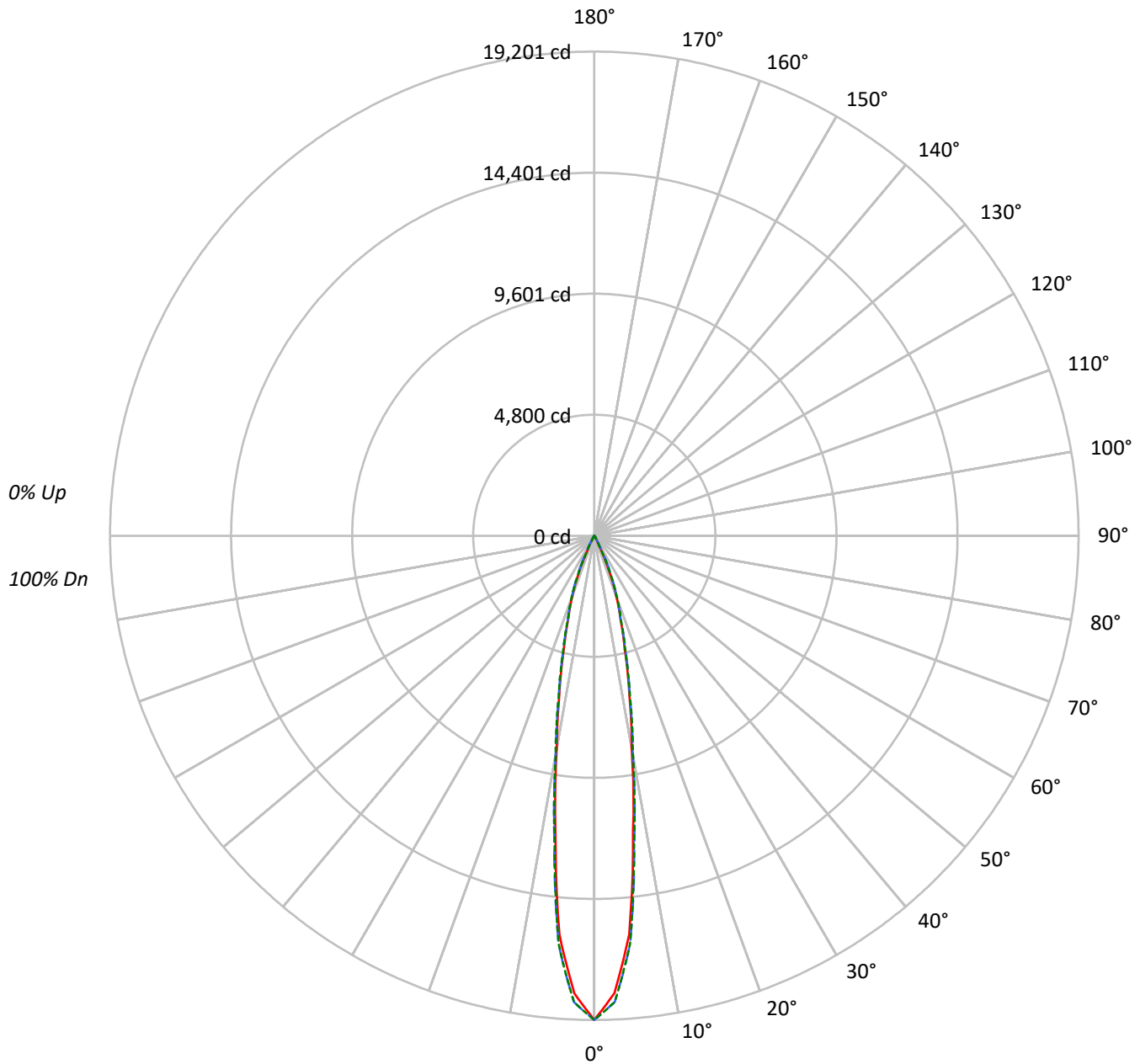
Lumens per Lamp: N/A
Luminaire Lumens: 3204.3 lumens
Efficiency: N/A
Efficacy: 67.2 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.32 / 0.36
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 47.7
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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	115	113	111	110	113	111	109	108	107	106	105	103	102	102	100	99	99	97		
2	112	108	105	103	110	107	104	102	103	101	100	101	99	98	98	97	96	94		
3	108	104	100	98	107	103	99	97	100	98	95	98	96	94	96	94	93	91		
4	105	100	96	94	104	99	96	93	97	94	92	95	93	91	94	92	90	89		
5	102	97	93	90	101	96	92	90	94	91	89	93	90	88	92	89	87	86		
6	100	94	90	87	98	93	89	87	92	89	86	91	88	86	89	87	85	84		
7	97	91	87	84	96	90	87	84	89	86	84	88	85	83	87	85	83	82		
8	95	88	85	82	94	88	84	82	87	84	81	86	83	81	85	83	81	80		
9	92	86	82	80	92	86	82	80	85	82	79	84	81	79	84	81	79	78		
10	90	84	80	78	89	84	80	78	83	80	77	82	79	77	82	79	77	76		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1860124	1860124	1860124
5°	1542936	1582874	1580638
10°	840738	865566	869954
15°	467465	480864	483351
20°	263546	271020	274443
25°	79323	116895	78981
30°	14945	21410	14945
35°	6434	9958	6635
40°	3136	5223	3136
45°	2041	2726	1562
50°	1236	1492	738
55°	828	828	540
60°	620	329	329
65°	390	390	390
70°	0	482	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1278.4	39.9
10°-20°	1362.7	42.5
20°-30°	497.0	15.5
30°-40°	47.4	1.5
40°-50°	13.0	0.4
50°-60°	3.9	0.1
60°-70°	1.6	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°	3138.1	97.9
0°-40°	3185.4	99.4
0°-60°	3202.4	99.9
0°-90°	3204.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3204.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	19201	19201	19201	19201	19201	
5°	15866	16267	16277	16107	16254	1254
15°	4661	4772	4795	4785	4819	1333
25°	742	1074	1094	1084	739	428
35°	54	66	84	66	56	39
45°	15	15	20	15	11	12
55°	5	5	5	3	3	4
65°	2	2	2	2	2	2
75°	0	2	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°	19201.2	19201.2	19201.2	19201.2	19201.2
2.5°	18154.0	18536.8	18508.6	18422.9	18508.6
5°	15866.4	16267.3	16277.1	16107.3	16254.1
7.5°	11794.2	12104.4	12158.6	11992.1	12102.6
10°	8546.7	8823.9	8799.1	8766.1	8843.7
12.5°	6384.5	6524.6	6509.9	6546.2	6551.0
15°	4661.0	4771.5	4794.6	4784.6	4819.4
17.5°	3432.3	3491.6	3480.0	3498.2	3511.4
20°	2556.4	2650.4	2628.9	2645.6	2662.1
22.5°	1695.5	1868.6	1847.2	1873.6	1858.8
25°	742.1	1073.7	1093.6	1083.6	738.9
27.5°	227.7	384.3	493.2	376.1	227.7
30°	133.6	160.1	191.4	156.7	133.6
32.5°	84.2	100.6	120.4	98.9	82.4
35°	54.4	65.9	84.2	65.9	56.1
37.5°	36.4	44.6	59.3	44.6	38.0
40°	24.8	29.6	41.3	31.3	24.8
42.5°	18.1	21.5	28.0	21.5	16.5
45°	14.9	14.9	19.9	14.9	11.4
47.5°	11.4	11.4	13.3	9.9	8.2
50°	8.2	8.2	9.9	6.6	4.9
52.5°	4.9	6.6	6.6	4.9	3.2
55°	4.9	4.9	4.9	3.2	3.2
57.5°	3.2	3.2	3.2	1.7	1.7
60°	3.2	3.2	1.7	1.7	1.7
62.5°	1.7	1.7	1.7	1.7	1.7
65°	1.7	1.7	1.7	1.7	1.7
67.5°	1.7	1.7	1.7	1.7	1.7
70°	0.0	1.7	1.7	0.0	0.0
72.5°	0.0	1.7	0.0	0.0	0.0
75°	0.0	1.7	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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