

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: P1212233

Luminaire Tested: **LDSQA4A25927D010TE LAR15SP 4LSQA1H**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P1212233
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: LDSQA4A25927D010TE LAR15SP 4LSQA1H
Description: PORTFOLIO 4" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,
SELF-FLANGED, 15° SPOT
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

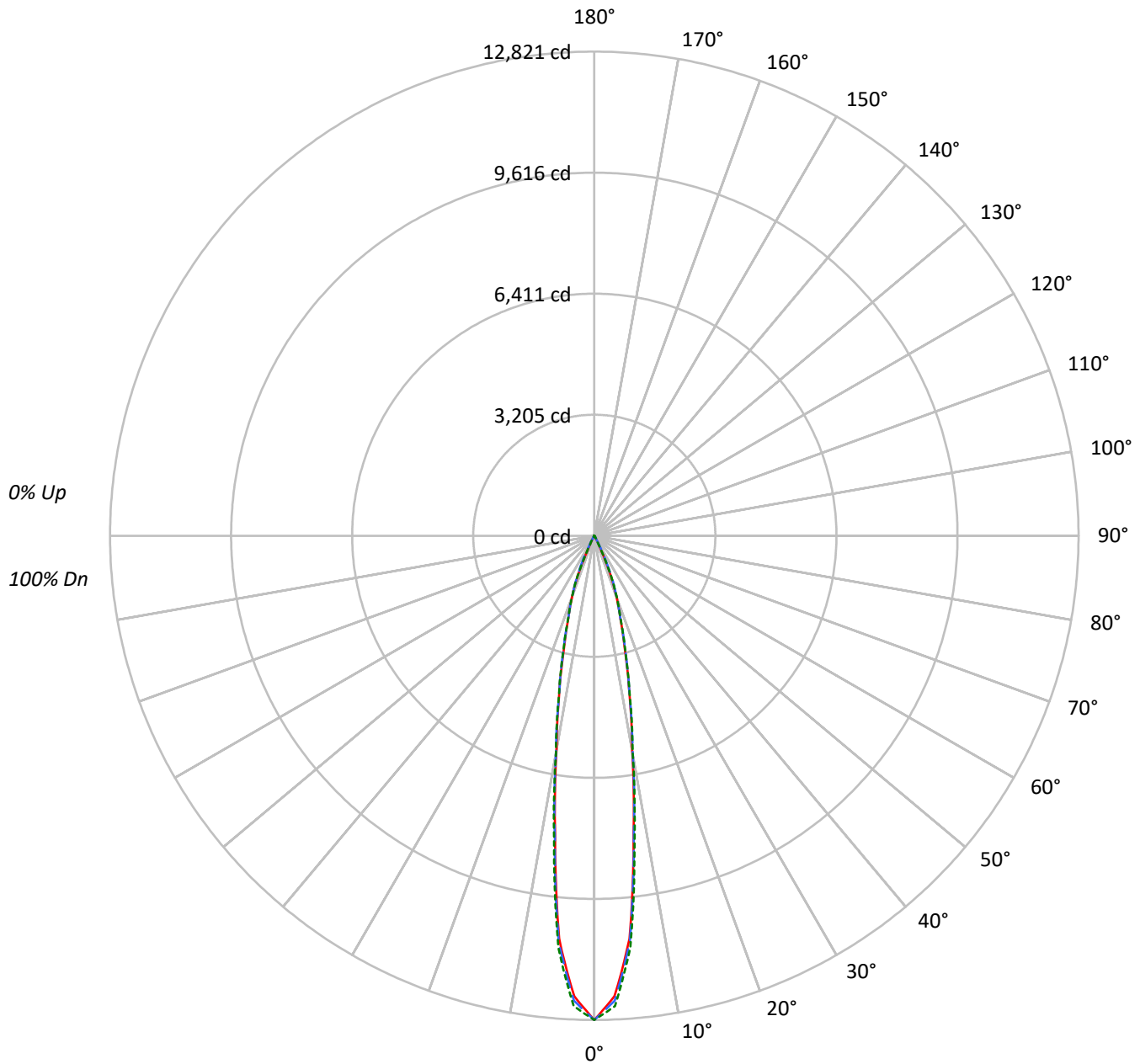
Lumens per Lamp: N/A
Luminaire Lumens: 2105.1 lumens
Efficiency: N/A
Efficacy: 68.1 lumens/watt
Spacing Criteria (0/90/45): 0.32 / 0.32 / 0.36
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 30.9
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



Cooper Lighting Solutions Photometric Lab

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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	110	108	107	106	105	104	103	102	100	99	99	97		
2	112	108	105	103	110	107	104	102	104	102	100	101	99	98	98	97	96	94		
3	108	104	101	98	107	103	100	97	100	98	96	98	96	94	96	94	93	92		
4	105	100	97	94	104	99	96	93	97	95	92	96	93	91	94	92	90	89		
5	103	97	93	90	101	96	93	90	95	92	89	93	91	89	92	90	88	87		
6	100	94	90	87	99	93	90	87	92	89	87	91	88	86	90	87	86	85		
7	97	91	88	85	96	91	87	85	90	87	84	89	86	84	88	85	83	82		
8	95	89	85	82	94	88	85	82	88	84	82	87	84	82	86	83	81	80		
9	93	87	83	80	92	86	83	80	85	82	80	85	82	80	84	81	79	79		
10	91	84	81	78	90	84	81	78	83	80	78	83	80	78	82	80	78	77		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1242059	1242059	1242059
5°	1041061	1049872	1065120
10°	566394	574795	576979
15°	313194	318239	319453
20°	177361	177876	178907
25°	48389	75817	47534
30°	7763	11824	7540
35°	2625	4399	2495
40°	1138	1783	1138
45°	685	822	548
50°	467	467	301
55°	338	338	186
60°	213	213	213
65°	252	252	252
70°	312	312	312
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	854.6	40.6
10°-20°	903.7	42.9
20°-30°	318.0	15.1
30°-40°	21.4	1.0
40°-50°	4.4	0.2
50°-60°	1.5	0.1
60°-70°	1.1	0.1
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°	2076.3	98.6
0°-40°	2097.7	99.6
0°-60°	2103.6	99.9
0°-90°	2105.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2105.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12821	12821	12821	12821	12821	
5°	10706	10866	10796	10816	10953	845
15°	3123	3175	3173	3166	3185	895
25°	453	687	709	676	445	280
35°	22	27	37	27	21	17
45°	5	5	6	5	4	4
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°	12821.2	12821.2	12821.2	12821.2	12821.2
2.5°	12205.6	12365.5	12325.2	12299.1	12467.0
5°	10705.5	10866.4	10796.1	10816.1	10952.9
7.5°	7959.0	8094.8	8022.3	8052.5	8157.1
10°	5757.8	5892.5	5843.2	5859.3	5865.4
12.5°	4292.9	4352.2	4313.0	4324.0	4344.1
15°	3122.8	3175.1	3173.1	3166.1	3185.2
17.5°	2291.8	2317.0	2291.8	2290.9	2303.9
20°	1720.4	1755.5	1725.4	1729.4	1735.4
22.5°	1155.9	1226.4	1214.3	1199.3	1183.2
25°	452.7	687.2	709.3	676.0	444.7
27.5°	129.8	214.2	304.9	210.3	125.7
30°	69.4	82.5	105.7	80.4	67.4
32.5°	37.2	47.3	60.4	46.3	36.3
35°	22.2	27.2	37.2	27.2	21.1
37.5°	14.1	17.1	23.1	17.1	14.1
40°	9.0	11.0	14.1	11.0	9.0
42.5°	7.0	8.1	9.0	7.0	6.0
45°	5.0	5.0	6.0	5.0	4.0
47.5°	4.0	4.0	4.0	3.1	3.1
50°	3.1	3.1	3.1	2.0	2.0
52.5°	2.0	2.0	2.0	2.0	2.0
55°	2.0	2.0	2.0	1.1	1.1
57.5°	2.0	1.1	1.1	1.1	1.1
60°	1.1	1.1	1.1	1.1	1.1
62.5°	1.1	1.1	1.1	1.1	1.1
65°	1.1	1.1	1.1	1.1	1.1
67.5°	1.1	1.1	1.1	1.1	0.0
70°	1.1	1.1	1.1	1.1	1.1
72.5°	1.1	1.1	1.1	0.0	0.0
75°	0.0	1.1	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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