

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: P1212249

Luminaire Tested: **LDSQA4A25930D010TE LAR15SP 4LSQAL1H**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P1212249
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: LDSQA4A25930D010TE LAR15SP 4LSQAL1H
Description: PORTFOLIO 4" SQUARE LENSED ADJUSTABLE, SELF-FLANGED, 15° SPOT
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

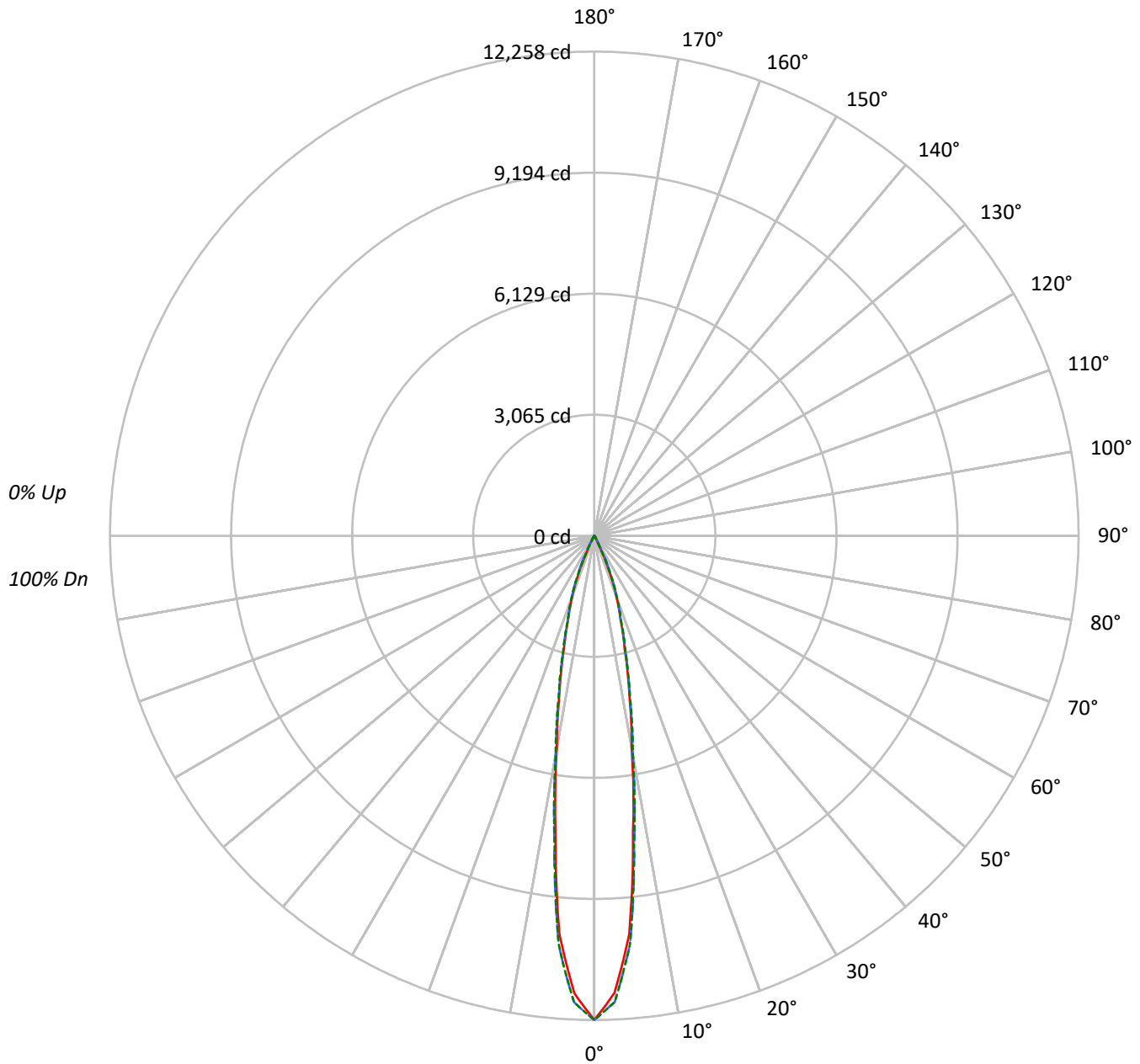
Lumens per Lamp: N/A
Luminaire Lumens: 2045.6 lumens
Efficiency: N/A
Efficacy: 66.2 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.32 / 0.36
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	1187451	1187451	1187451
5°	984951	1010449	1009019
10°	536706	552544	555337
15°	298411	306956	308551
20°	168237	173010	175185
25°	50645	74620	50420
30°	9542	13658	9542
35°	4104	6351	4234
40°	1998	3326	1998
45°	1302	1740	1014
50°	784	949	467
55°	524	524	355
60°	407	213	213
65°	252	252	252
70°	0	312	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	816.1	39.9
10°-20°	869.9	42.5
20°-30°	317.3	15.5
30°-40°	30.2	1.5
40°-50°	8.3	0.4
50°-60°	2.5	0.1
60°-70°	1.1	0.1
70°-80°	0.2	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°	2003.2	97.9
0°-40°	2033.5	99.4
0°-60°	2044.3	99.9
0°-90°	2045.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2045.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12258	12258	12258	12258	12258	
5°	10128	10384	10391	10282	10376	800
15°	2975	3046	3061	3054	3076	851
25°	474	686	698	692	472	273
35°	35	42	54	42	36	25
45°	10	10	13	10	7	7
55°	3	3	3	2	2	3
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°	12257.5	12257.5	12257.5	12257.5	12257.5
2.5°	11588.9	11833.2	11815.3	11760.5	11815.3
5°	10128.5	10384.4	10390.7	10282.3	10376.0
7.5°	7529.0	7726.9	7761.8	7655.4	7725.9
10°	5456.0	5632.8	5617.0	5595.9	5645.4
12.5°	4075.6	4165.2	4155.7	4178.9	4182.0
15°	2975.4	3045.9	3060.6	3054.3	3076.5
17.5°	2191.0	2228.9	2221.5	2233.1	2241.6
20°	1631.9	1691.9	1678.2	1688.8	1699.3
22.5°	1082.4	1192.9	1179.2	1196.0	1186.6
25°	473.8	685.5	698.1	691.7	471.7
27.5°	145.3	245.3	314.7	240.0	145.3
30°	85.3	102.1	122.1	100.0	85.3
32.5°	53.7	64.2	76.9	63.1	52.7
35°	34.7	42.1	53.7	42.1	35.8
37.5°	23.2	28.5	38.0	28.5	24.2
40°	15.8	18.9	26.3	19.9	15.8
42.5°	11.6	13.7	17.9	13.7	10.6
45°	9.5	9.5	12.7	9.5	7.4
47.5°	7.4	7.4	8.4	6.3	5.2
50°	5.2	5.2	6.3	4.2	3.1
52.5°	3.1	4.2	4.2	3.1	2.1
55°	3.1	3.1	3.1	2.1	2.1
57.5°	2.1	2.1	2.1	1.1	1.1
60°	2.1	2.1	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	1.1
70°	0.0	1.1	1.1	0.0	0.0
72.5°	0.0	1.1	0.0	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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