

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: P1212243

Luminaire Tested: **LDSQA4A25927D010TE LAR35FL 4LSQAL1H**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P1212243
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26798)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDSQA4A25927D010TE LAR35FL 4LSQAL1H
Description: PORTFOLIO 4" SQUARE LENSED ADJUSTABLE, SELF-FLANGED, 35° FLOOD
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

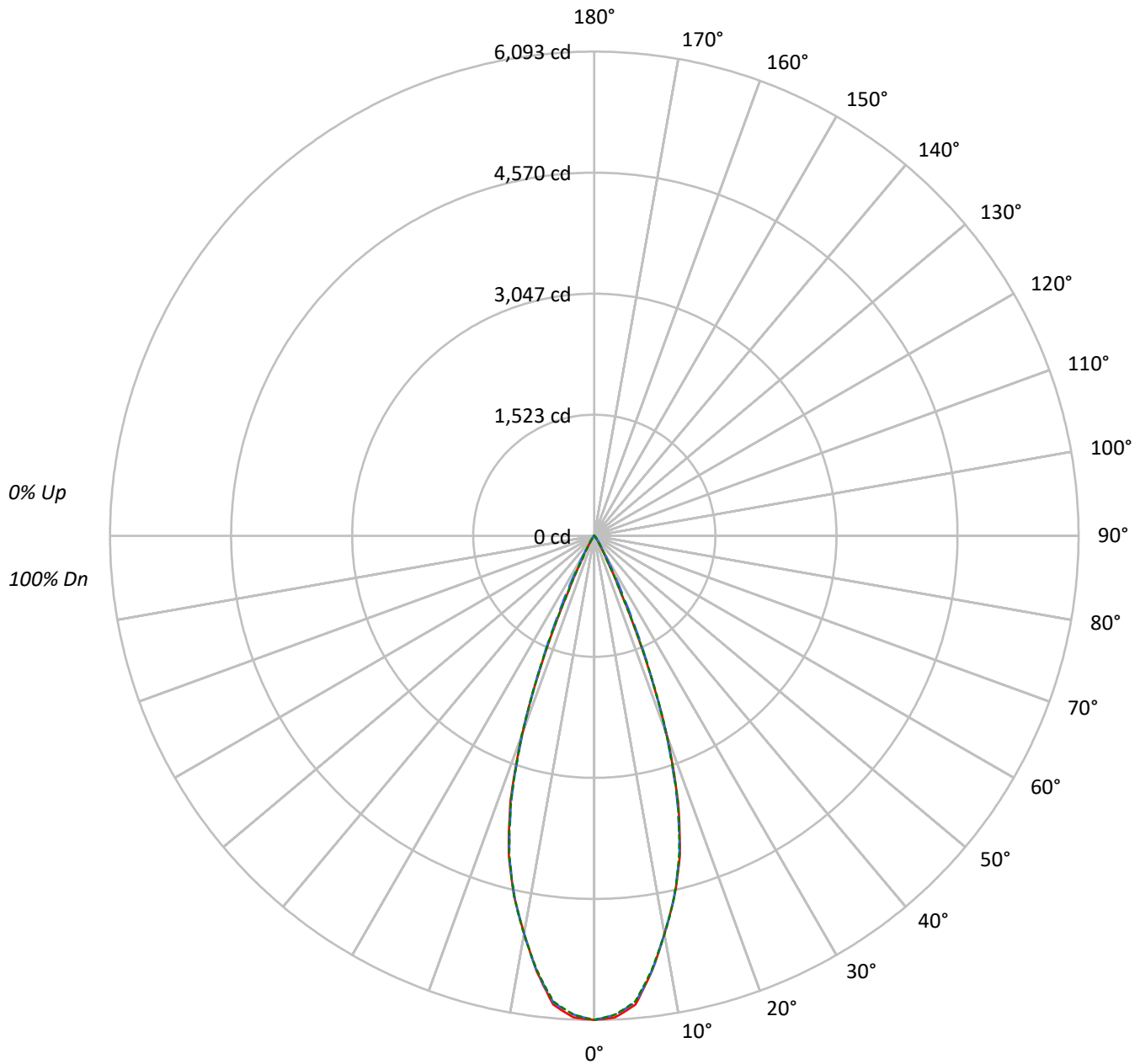
Lumens per Lamp: N/A
Luminaire Lumens: 2197.7 lumens
Efficiency: N/A
Efficacy: 71.1 lumens/watt
Spacing Criteria (0/90/45): 0.63 / 0.63 / 0.57
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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

1121 Highway 74 South

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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	109	112	110	109	107		106	105	104			103	102	101			99
2	111	107	104	101	109	105	102	100		102	100	98			99	97	96			97
3	107	102	98	95	105	101	97	94		98	95	93			96	94	92			94
4	103	98	93	90	102	97	93	90		95	91	89			93	90	88			91
5	100	94	89	86	98	93	89	86		91	88	85			90	87	84			88
6	97	90	86	82	95	89	85	82		88	84	82			87	83	81			85
7	94	87	82	79	92	86	82	79		85	81	78			84	81	78			83
8	91	84	79	76	90	83	79	76		82	78	76			81	78	75			80
9	88	81	76	73	87	80	76	73		79	76	73			79	75	73			78
10	85	78	74	71	84	78	73	71		77	73	71			76	73	70			76

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	590262	590262	590262
5°	575985	573437	572358
10°	500181	500073	500683
15°	417208	414992	414791
20°	273670	271495	273876
25°	83684	105843	83364
30°	20929	25326	20493
35°	6776	10466	6670
40°	3187	4970	2807
45°	1658	2069	1233
50°	904	1055	603
55°	524	676	338
60°	388	388	388
65°	252	252	252
70°	312	312	312
75°	0	412	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	535.3	24.4
10°-20°	1109.1	50.5
20°-30°	484.3	22.0
30°-40°	52.9	2.4
40°-50°	10.9	0.5
50°-60°	3.0	0.1
60°-70°	1.3	0.1
70°-80°	0.8	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°	2128.7	96.9
0°-40°	2181.6	99.3
0°-60°	2195.6	99.9
0°-90°	2197.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2197.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6093	6093	6093	6093	6093	
5°	5923	5907	5897	5912	5886	536
15°	4160	4142	4138	4144	4136	1113
25°	783	965	990	974	780	453
35°	57	68	88	67	56	45
45°	12	13	15	11	9	10
55°	3	3	4	2	2	3
65°	1	1	1	1	1	1
75°	0	1	1	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6093.0	6093.0	6093.0	6093.0	6093.0
2.5°	6065.8	6043.8	6031.7	6057.8	6031.7
5°	5923.0	5906.8	5896.8	5911.8	5885.7
7.5°	5531.5	5515.4	5529.5	5529.5	5516.4
10°	5084.7	5075.7	5083.6	5104.9	5089.8
12.5°	4651.0	4644.0	4647.0	4669.2	4652.1
15°	4159.9	4141.9	4137.8	4143.9	4135.8
17.5°	3505.9	3478.7	3461.7	3475.8	3479.7
20°	2654.6	2654.6	2633.5	2645.6	2656.6
22.5°	1697.6	1736.8	1740.9	1738.8	1731.8
25°	782.9	965.0	990.2	974.0	779.9
27.5°	317.0	391.4	487.1	403.5	305.9
30°	187.1	197.2	226.4	194.2	183.2
32.5°	98.6	118.8	138.9	117.8	95.6
35°	57.3	68.5	88.5	67.4	56.4
37.5°	37.3	43.3	59.3	43.3	35.2
40°	25.2	28.2	39.3	27.2	22.2
42.5°	17.1	19.1	25.2	17.1	14.1
45°	12.1	13.2	15.1	11.0	9.0
47.5°	8.1	9.0	10.1	7.0	6.0
50°	6.0	6.0	7.0	5.0	4.0
52.5°	4.0	5.0	5.0	3.1	3.1
55°	3.1	3.1	4.0	2.0	2.0
57.5°	3.1	3.1	3.1	2.0	2.0
60°	2.0	2.0	2.0	2.0	2.0
62.5°	1.1	2.0	2.0	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°	1.1	1.1	1.1	1.1	1.1
72.5°	1.1	1.1	1.1	1.1	1.1
75°	0.0	1.1	1.1	0.0	0.0
77.5°	0.0	1.1	1.1	1.1	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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