

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: P1212075

Luminaire Tested: **LDSQA4A10927D010TE LAR35FL 4LSQAL1H**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P1212075
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: LDSQA4A10927D010TE 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

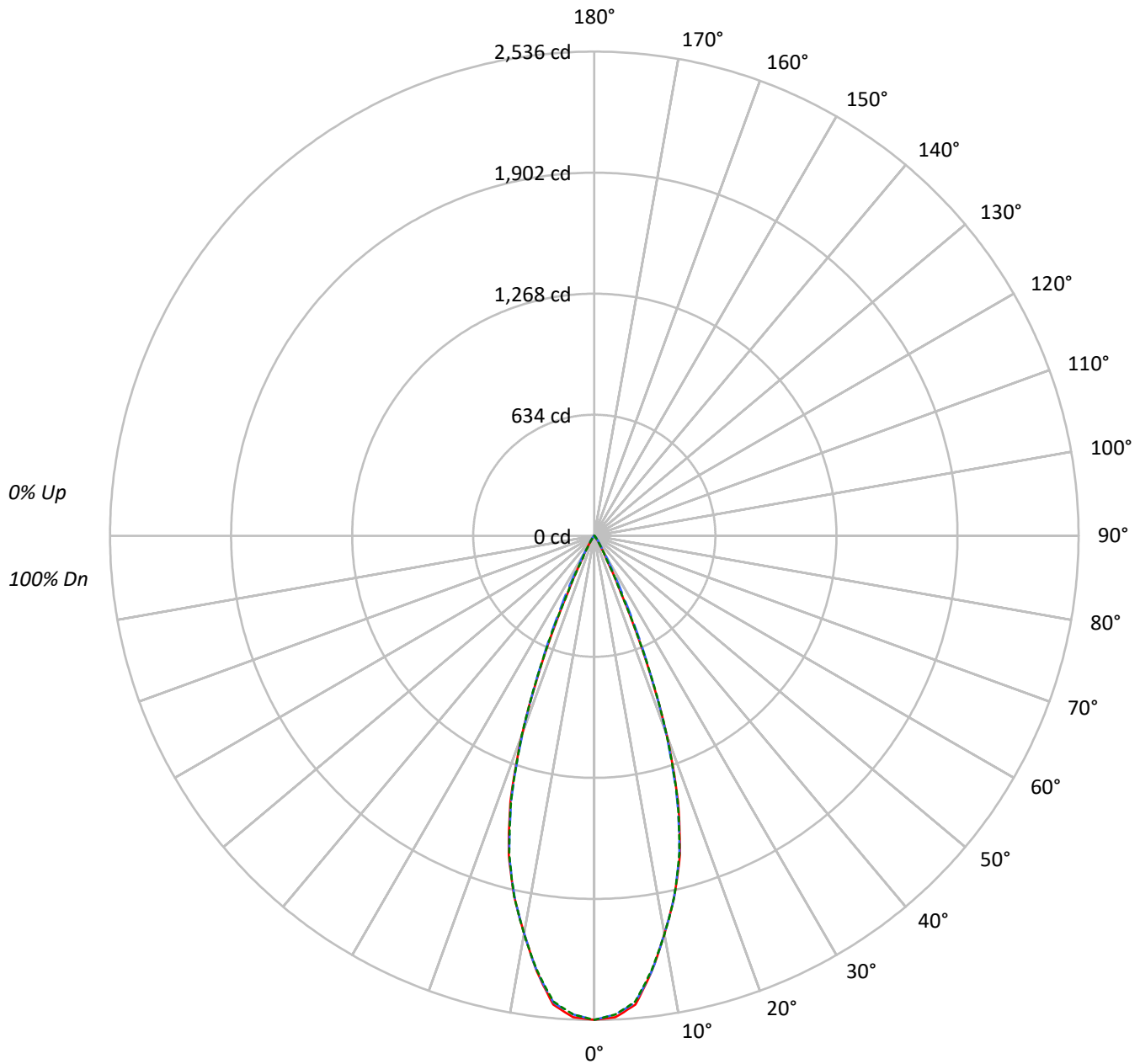
Lumens per Lamp: N/A
Luminaire Lumens: 914.4 lumens
Efficiency: N/A
Efficacy: 73.7 lumens/watt
Spacing Criteria (0/90/45): 0.63 / 0.63 / 0.57
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 12.4
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	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	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96		
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92		
3	107	102	98	95	105	101	97	94	98	95	93	96	94	92	94	92	90	89		
4	103	98	93	90	102	97	93	90	95	91	89	93	90	88	91	89	87	86		
5	100	94	89	86	98	93	89	86	91	88	85	90	87	84	88	86	84	82		
6	97	90	86	82	95	89	85	82	88	84	82	87	83	81	86	83	81	79		
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77		
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74		
9	88	81	76	73	87	80	76	73	79	76	73	79	75	73	78	75	73	72		
10	85	78	74	71	84	78	74	71	77	73	71	76	73	70	76	72	70	69		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	245628	245628	245628
5°	239681	238631	238183
10°	208141	208101	208347
15°	173617	172694	172604
20°	113886	112979	113969
25°	34825	44039	34686
30°	8714	10537	8524
35°	2826	4352	2767
40°	1328	2061	1163
45°	685	863	521
50°	377	437	256
55°	220	287	135
60°	155	155	155
65°	92	92	92
70°	113	113	113
75°	0	150	0
80°	0	0	0
85°	0	0	0

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.7	24.4
10°-20°	461.6	50.5
20°-30°	201.6	22.0
30°-40°	22.0	2.4
40°-50°	4.5	0.5
50°-60°	1.3	0.1
60°-70°	0.5	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°	885.8	96.9
0°-40°	907.8	99.3
0°-60°	913.6	99.9
0°-90°	914.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	914.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2536	2536	2536	2536	2536	
5°	2465	2458	2454	2460	2449	223
15°	1731	1724	1722	1724	1721	463
25°	326	402	412	405	324	189
35°	24	28	37	28	23	19
45°	5	5	6	5	4	4
55°	1	1	2	1	1	1
65°	0	0	0	0	0	0
75°	0	0	0	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°	2535.5	2535.5	2535.5	2535.5	2535.5
2.5°	2524.2	2515.0	2510.0	2520.9	2510.0
5°	2464.7	2458.0	2453.9	2460.1	2449.3
7.5°	2301.9	2295.2	2301.0	2301.0	2295.6
10°	2115.9	2112.2	2115.5	2124.3	2118.0
12.5°	1935.4	1932.5	1933.8	1943.0	1935.9
15°	1731.1	1723.6	1721.9	1724.4	1721.0
17.5°	1458.9	1447.6	1440.5	1446.4	1448.0
20°	1104.7	1104.7	1095.9	1100.9	1105.5
22.5°	706.4	722.8	724.4	723.6	720.7
25°	325.8	401.6	412.0	405.3	324.5
27.5°	131.9	162.9	202.7	167.9	127.3
30°	77.9	82.1	94.2	80.8	76.2
32.5°	41.0	49.4	57.8	49.0	39.8
35°	23.9	28.5	36.8	28.1	23.4
37.5°	15.5	18.0	24.7	18.0	14.7
40°	10.5	11.7	16.3	11.3	9.2
42.5°	7.1	8.0	10.5	7.1	5.9
45°	5.0	5.4	6.3	4.6	3.8
47.5°	3.3	3.8	4.2	2.9	2.5
50°	2.5	2.5	2.9	2.1	1.7
52.5°	1.7	2.1	2.1	1.3	1.3
55°	1.3	1.3	1.7	0.8	0.8
57.5°	1.3	1.3	1.3	0.8	0.8
60°	0.8	0.8	0.8	0.8	0.8
62.5°	0.4	0.8	0.8	0.4	0.4
65°	0.4	0.4	0.4	0.4	0.4
67.5°	0.4	0.4	0.4	0.4	0.4
70°	0.4	0.4	0.4	0.4	0.4
72.5°	0.4	0.4	0.4	0.4	0.4
75°	0.0	0.4	0.4	0.0	0.0
77.5°	0.0	0.4	0.4	0.4	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

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— 0°-180° - - 45°-225° - - - 90°-270°

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