

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: P1219512

Luminaire Tested: **LDSQA4A15940D010TE LAR35FL 4LSQAL1H**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P1219512
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: LDSQA4A15940D010TE LAR35FL 4LSQAL1H
Description: PORTFOLIO 4" SQUARE LENSED ADJUSTABLE, SELF-FLANGED, 35° FLOOD
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

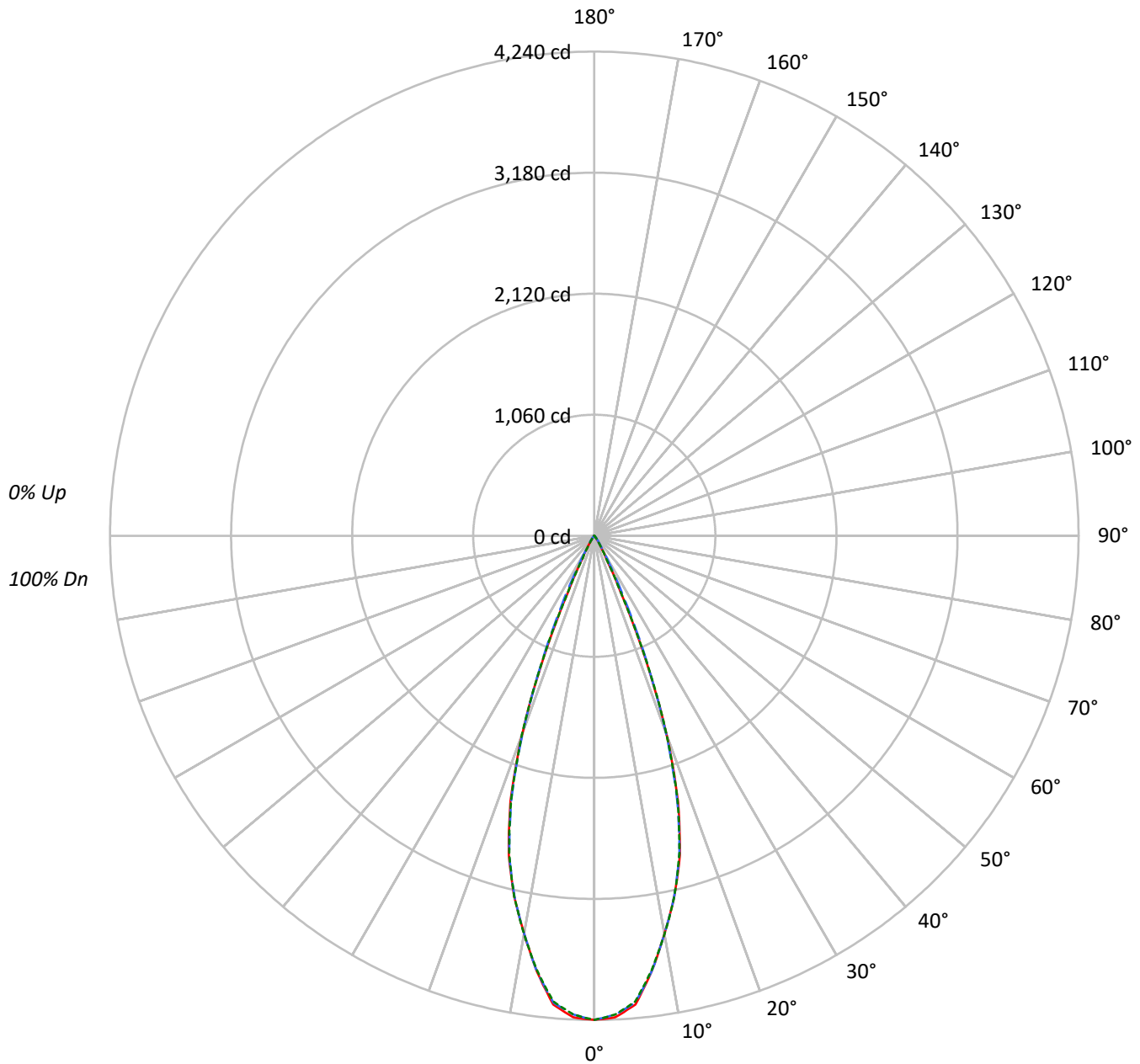
Lumens per Lamp: N/A
Luminaire Lumens: 1529.1 lumens
Efficiency: N/A
Efficacy: 75.0 lumens/watt
Spacing Criteria (0/90/45): 0.63 / 0.63 / 0.57
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 20.4
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

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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	85	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	73	71	77	73	71	76	73	70	76	72	70	69		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	410732	410732	410732
5°	400797	399027	398269
10°	348052	347983	348397
15°	290318	288773	288633
20°	190422	188917	190567
25°	58234	73647	57999
30°	14576	17618	14251
35°	4719	7285	4636
40°	2213	3452	1948
45°	1151	1439	863
50°	633	754	422
55°	355	473	236
60°	271	271	271
65°	160	160	160
70°	198	198	198
75°	0	262	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	372.5	24.4
10°-20°	771.8	50.5
20°-30°	337.0	22.0
30°-40°	36.8	2.4
40°-50°	7.6	0.5
50°-60°	2.1	0.1
60°-70°	0.9	0.1
70°-80°	0.5	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°	1481.3	96.9
0°-40°	1518.1	99.3
0°-60°	1527.8	99.9
0°-90°	1529.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1529.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4240	4240	4240	4240	4240	
5°	4122	4110	4103	4114	4096	373
15°	2895	2882	2879	2884	2878	774
25°	545	672	689	678	543	315
35°	40	48	62	47	39	31
45°	8	9	10	8	6	7
55°	2	2	3	1	1	2
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°	4239.8	4239.8	4239.8	4239.8	4239.8
2.5°	4220.9	4205.5	4197.1	4215.3	4197.1
5°	4121.5	4110.3	4103.3	4113.7	4095.5
7.5°	3849.1	3837.9	3847.7	3847.7	3838.6
10°	3538.2	3531.9	3537.5	3552.2	3541.7
12.5°	3236.4	3231.5	3233.6	3249.0	3237.1
15°	2894.7	2882.1	2879.3	2883.5	2877.9
17.5°	2439.6	2420.6	2408.8	2418.6	2421.3
20°	1847.1	1847.1	1832.5	1840.9	1848.5
22.5°	1181.3	1208.6	1211.4	1210.0	1205.0
25°	544.8	671.5	689.0	677.9	542.6
27.5°	220.6	272.3	338.9	280.8	212.8
30°	130.3	137.2	157.5	135.1	127.4
32.5°	68.6	82.7	96.6	82.0	66.5
35°	39.9	47.6	61.6	46.9	39.2
37.5°	25.9	30.1	41.3	30.1	24.6
40°	17.5	19.6	27.3	18.9	15.4
42.5°	11.9	13.3	17.5	11.9	9.8
45°	8.4	9.1	10.5	7.7	6.3
47.5°	5.6	6.3	7.0	5.0	4.2
50°	4.2	4.2	5.0	3.5	2.8
52.5°	2.8	3.5	3.5	2.1	2.1
55°	2.1	2.1	2.8	1.4	1.4
57.5°	2.1	2.1	2.1	1.4	1.4
60°	1.4	1.4	1.4	1.4	1.4
62.5°	0.7	1.4	1.4	0.7	0.7
65°	0.7	0.7	0.7	0.7	0.7
67.5°	0.7	0.7	0.7	0.7	0.7
70°	0.7	0.7	0.7	0.7	0.7
72.5°	0.7	0.7	0.7	0.7	0.7
75°	0.0	0.7	0.7	0.0	0.0
77.5°	0.0	0.7	0.7	0.7	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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