

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: P1219568

Luminaire Tested: **LDSQA4A30950D010TE LAR35FL 4LSQAL1H**

Issue Date: 3/3/2020

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

**Test Information**

Test Method: LM-41-14
Report Number: P1219568
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: LDSQA4A30950D010TE LAR35FL 4LSQAL1H
Description: PORTFOLIO 4" SQUARE LENSED ADJUSTABLE, SELF-FLANGED, 35° FLOOD
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

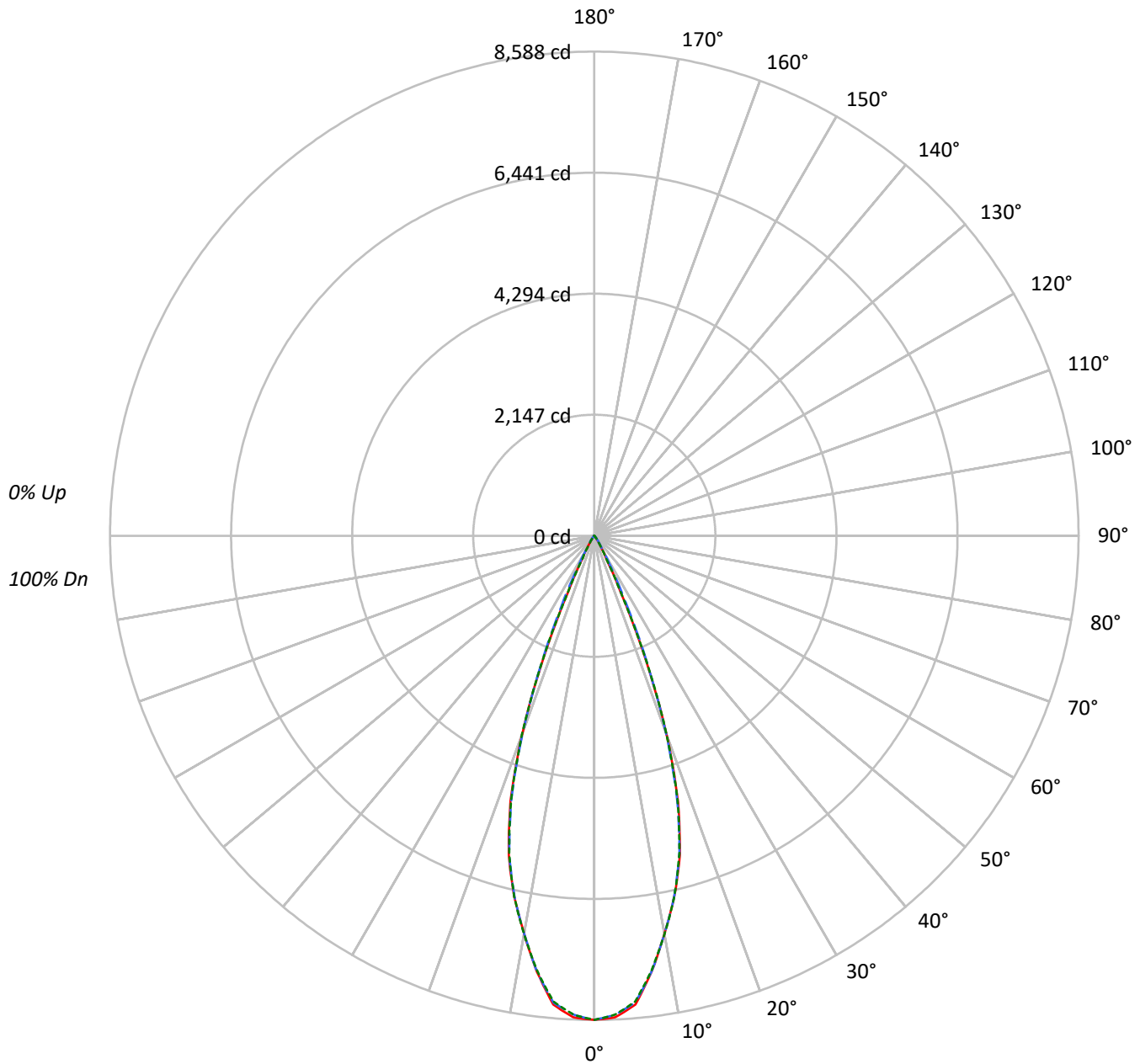
Lumens per Lamp: N/A
Luminaire Lumens: 3097.5 lumens
Efficiency: N/A
Efficacy: 77.8 lumens/watt
Spacing Criteria (0/90/45): 0.63 / 0.63 / 0.57
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 39.8
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



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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°	831976	831976	831976
5°	811854	808266	806748
10°	705017	704869	705706
15°	588067	584938	584657
20°	385732	382670	386020
25°	117953	149187	117504
30°	29509	35706	28883
35°	9556	14759	9402
40°	4489	6993	3958
45°	2343	2918	1754
50°	1266	1492	844
55°	726	946	473
60°	543	543	543
65°	344	344	344
70°	425	425	425
75°	0	561	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	754.5	24.4
10°-20°	1563.3	50.5
20°-30°	682.7	22.0
30°-40°	74.5	2.4
40°-50°	15.4	0.5
50°-60°	4.2	0.1
60°-70°	1.8	0.1
70°-80°	1.1	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°	3000.5	96.9
0°-40°	3075.0	99.3
0°-60°	3094.6	99.9
0°-90°	3097.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3097.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8588	8588	8588	8588	8588	
5°	8348	8326	8312	8333	8296	756
15°	5864	5838	5832	5841	5830	1569
25°	1104	1360	1396	1373	1099	639
35°	81	96	125	95	80	64
45°	17	18	21	16	13	14
55°	4	4	6	3	3	4
65°	2	2	2	2	2	2
75°	0	2	2	0	0	1
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°	8588.1	8588.1	8588.1	8588.1	8588.1
2.5°	8549.8	8518.6	8501.6	8538.5	8501.6
5°	8348.5	8325.8	8311.6	8332.9	8296.0
7.5°	7796.8	7774.1	7794.0	7794.0	7775.5
10°	7167.0	7154.2	7165.5	7195.2	7174.0
12.5°	6555.6	6545.8	6550.0	6581.2	6557.0
15°	5863.5	5837.9	5832.3	5840.8	5829.5
17.5°	4941.6	4903.3	4879.2	4899.0	4904.7
20°	3741.6	3741.6	3711.9	3728.9	3744.4
22.5°	2392.8	2448.1	2453.8	2450.9	2441.0
25°	1103.5	1360.2	1395.7	1373.0	1099.3
27.5°	446.8	551.7	686.4	568.8	431.2
30°	263.8	278.1	319.2	273.7	258.2
32.5°	139.0	167.3	195.8	166.0	134.8
35°	80.8	96.5	124.8	95.1	79.5
37.5°	52.5	60.9	83.7	60.9	49.6
40°	35.5	39.7	55.3	38.3	31.3
42.5°	24.1	26.9	35.5	24.1	19.9
45°	17.1	18.4	21.3	15.6	12.8
47.5°	11.4	12.8	14.2	9.9	8.4
50°	8.4	8.4	9.9	7.1	5.6
52.5°	5.6	7.1	7.1	4.3	4.3
55°	4.3	4.3	5.6	2.8	2.8
57.5°	4.3	4.3	4.3	2.8	2.8
60°	2.8	2.8	2.8	2.8	2.8
62.5°	1.5	2.8	2.8	1.5	1.5
65°	1.5	1.5	1.5	1.5	1.5
67.5°	1.5	1.5	1.5	1.5	1.5
70°	1.5	1.5	1.5	1.5	1.5
72.5°	1.5	1.5	1.5	1.5	1.5
75°	0.0	1.5	1.5	0.0	0.0
77.5°	0.0	1.5	1.5	1.5	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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