

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: P1212369

Luminaire Tested: **LDSQA4A35930D010TE 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: P1212369
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: LDSQA4A35930D010TE LAR35FL 4LSQAL1H
Description: PORTFOLIO 4" SQUARE LENSED ADJUSTABLE, SELF-FLANGED, 35° FLOOD
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

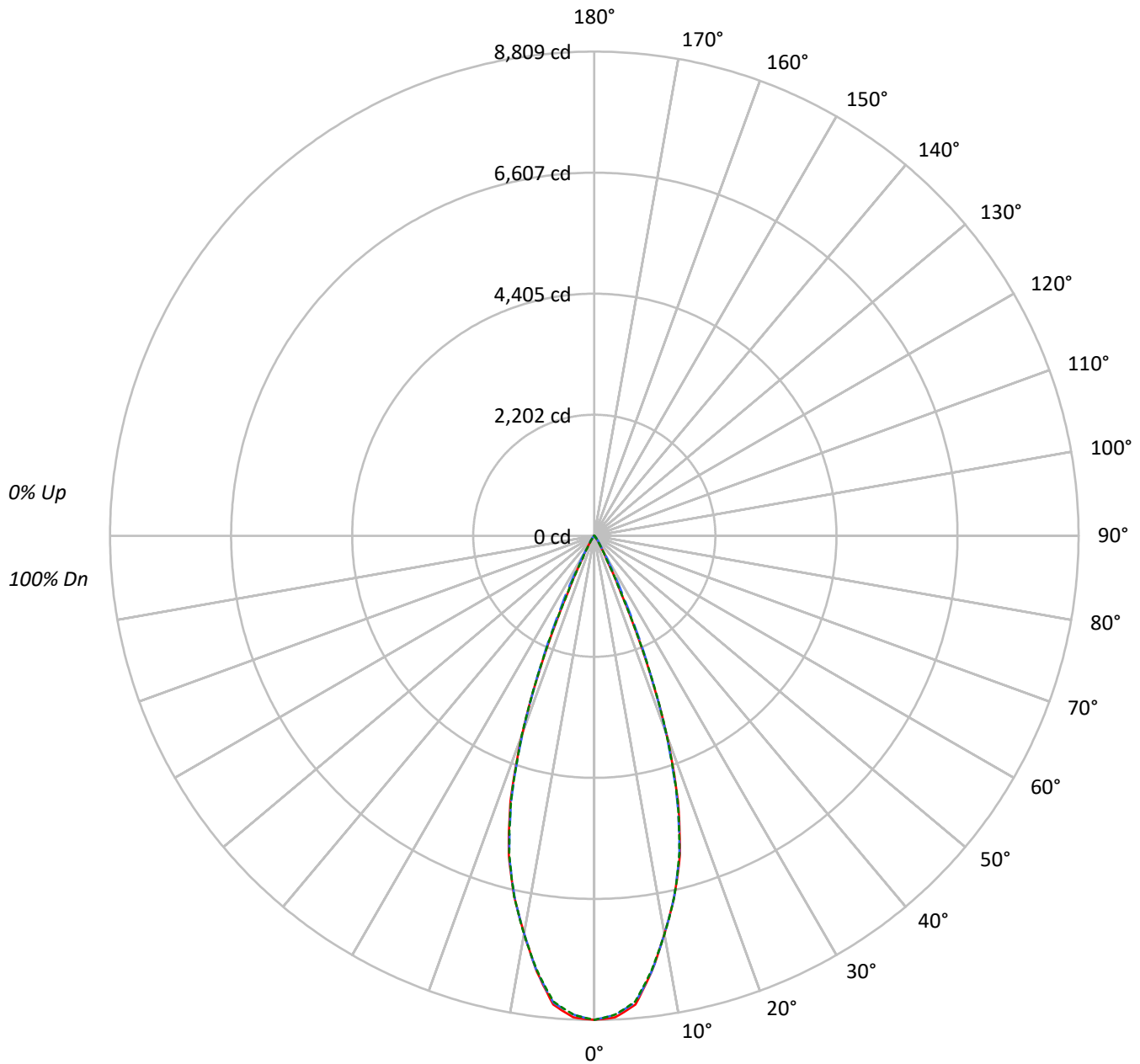
Lumens per Lamp: N/A
Luminaire Lumens: 3177.1 lumens
Efficiency: N/A
Efficacy: 66.6 lumens/watt
Spacing Criteria (0/90/45): 0.63 / 0.63 / 0.57
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 47.7
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	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94
3	107	102	98	95	105	101	97	94	98	95	93	96	94	92	94	92	90
4	103	98	93	90	102	97	93	90	95	91	89	93	90	88	91	89	87
5	100	94	89	86	98	93	89	86	91	88	85	90	87	84	88	86	84
6	97	90	86	82	95	89	85	82	88	84	82	87	83	81	85	83	81
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75
9	88	81	76	73	87	80	76	73	79	76	73	79	75	73	78	75	73
10	85	78	74	71	84	78	73	71	77	73	71	76	73	70	76	72	70

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	853366	853366	853366
5°	832713	829037	827481
10°	723137	722989	723855
15°	603181	599982	599691
20°	395649	392505	395948
25°	120989	153024	120529
30°	30259	36612	29621
35°	9804	15138	9638
40°	4603	7183	4047
45°	2384	2987	1795
50°	1311	1537	874
55°	726	980	490
60°	562	562	562
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°	773.8	24.4
10°-20°	1603.5	50.5
20°-30°	700.3	22.0
30°-40°	76.4	2.4
40°-50°	15.8	0.5
50°-60°	4.3	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°	3077.6	96.9
0°-40°	3154.0	99.3
0°-60°	3174.2	99.9
0°-90°	3177.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3177.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8809	8809	8809	8809	8809	
5°	8563	8540	8525	8547	8509	775
15°	6014	5988	5982	5991	5979	1609
25°	1132	1395	1432	1408	1128	655
35°	83	99	128	98	82	65
45°	17	19	22	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°	8808.9	8808.9	8808.9	8808.9	8808.9
2.5°	8769.6	8737.7	8720.2	8758.1	8720.2
5°	8563.0	8539.8	8525.2	8547.1	8509.2
7.5°	7997.2	7973.9	7994.2	7994.2	7975.3
10°	7351.2	7338.2	7349.7	7380.4	7358.5
12.5°	6724.1	6714.0	6718.3	6750.4	6725.6
15°	6014.2	5988.0	5982.3	5990.9	5979.4
17.5°	5068.6	5029.3	5004.7	5025.0	5030.8
20°	3837.8	3837.8	3807.3	3824.7	3840.7
22.5°	2454.3	2511.1	2516.8	2514.0	2503.7
25°	1131.9	1395.2	1431.6	1408.2	1127.6
27.5°	458.3	566.0	704.2	583.4	442.3
30°	270.5	285.1	327.3	280.8	264.8
32.5°	142.6	171.6	200.8	170.2	138.3
35°	82.9	98.9	128.0	97.5	81.5
37.5°	53.9	62.6	85.8	62.6	51.0
40°	36.4	40.7	56.8	39.3	32.0
42.5°	24.7	27.6	36.4	24.7	20.4
45°	17.4	18.9	21.8	16.1	13.1
47.5°	11.7	13.1	14.6	10.2	8.7
50°	8.7	8.7	10.2	7.2	5.8
52.5°	5.8	7.2	7.2	4.3	4.3
55°	4.3	4.3	5.8	2.9	2.9
57.5°	4.3	4.3	4.3	2.9	2.9
60°	2.9	2.9	2.9	2.9	2.9
62.5°	1.5	2.9	2.9	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

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— 0°-180° - - 45°-225° - - - 90°-270°

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