

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: P1212395

Luminaire Tested: **LDSQA4A35940D010TE LAR35FL 4LSQA1H**

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: P1212395
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26795)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDSQA4A35940D010TE LAR35FL 4LSQA1H
Description: PORTFOLIO 4" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,
SELF-FLANGED, 35° FLOOD
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

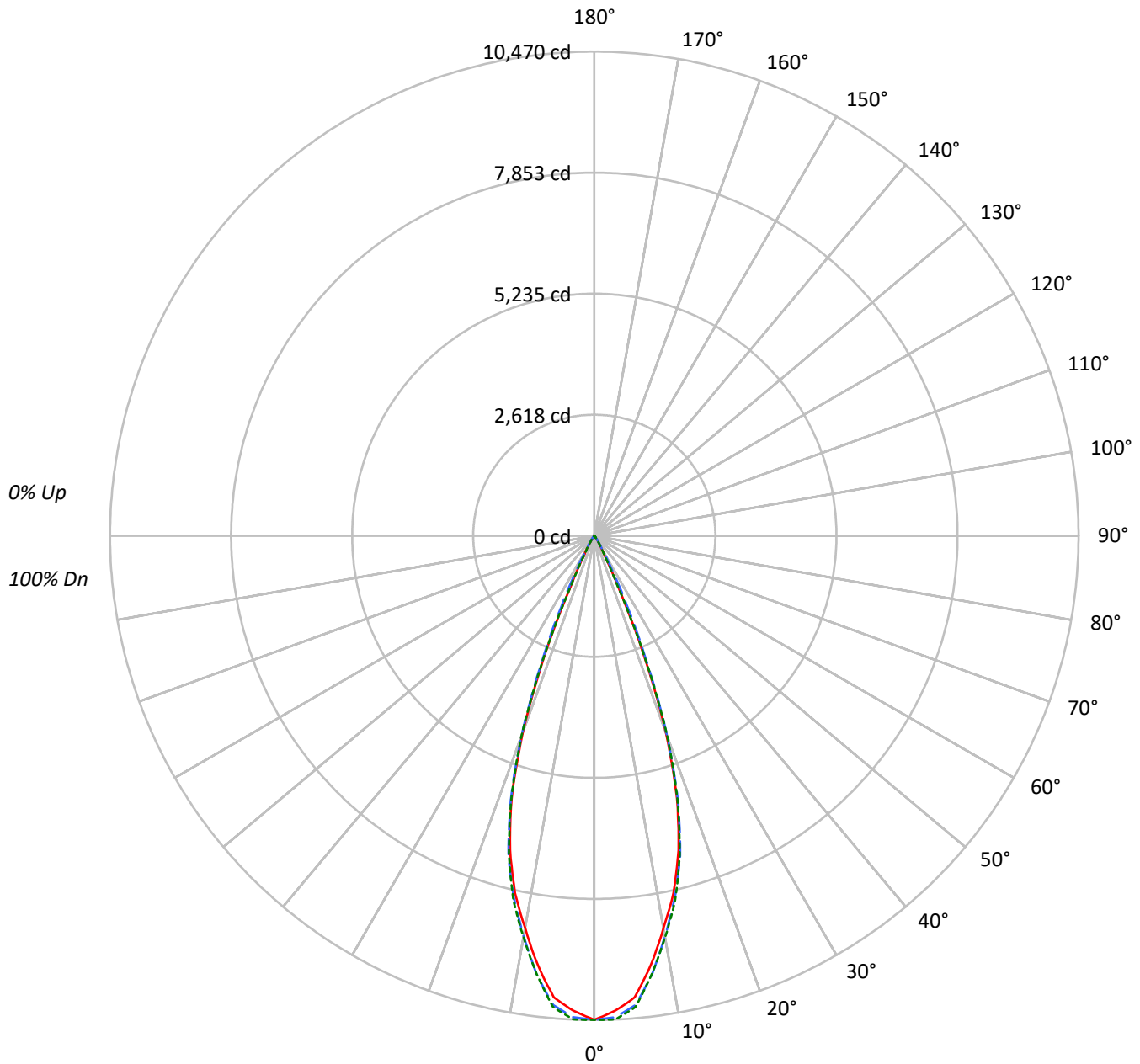
Lumens per Lamp: N/A
Luminaire Lumens: 3729.6 lumens
Efficiency: N/A
Efficacy: 78.2 lumens/watt
Spacing Criteria (0/90/45): 0.62 / 0.63 / 0.57
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1013995	1013995	1013995
5°	974380	990717	994724
10°	847289	864593	867091
15°	705771	718969	715790
20°	463762	474216	474886
25°	128642	180848	126601
30°	30863	39208	31400
35°	8255	14251	8066
40°	3010	5425	2807
45°	1507	1959	1302
50°	949	949	708
55°	524	524	270
60°	601	310	310
65°	367	367	367
70°	453	453	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	919.8	24.7
10°-20°	1907.2	51.1
20°-30°	814.6	21.8
30°-40°	71.9	1.9
40°-50°	10.7	0.3
50°-60°	3.0	0.1
60°-70°	1.6	0.0
70°-80°	0.7	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°	3641.6	97.6
0°-40°	3713.6	99.6
0°-60°	3727.3	99.9
0°-90°	3729.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3729.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10467	10467	10467	10467	10467	
5°	10020	10102	10188	10172	10229	908
15°	7037	7105	7169	7116	7137	1887
25°	1204	1640	1692	1619	1184	738
35°	70	87	120	86	68	59
45°	11	11	14	11	10	9
55°	3	3	3	3	2	3
65°	2	2	2	2	2	2
75°	0	2	0	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°	10467.0	10467.0	10467.0	10467.0	10467.0
2.5°	10283.0	10355.9	10421.0	10416.1	10470.1
5°	10019.8	10102.2	10187.8	10172.0	10229.0
7.5°	9363.3	9447.3	9558.3	9515.5	9553.6
10°	8613.3	8702.1	8789.2	8762.3	8814.6
12.5°	7910.8	7961.5	8025.0	8020.3	8075.7
15°	7037.1	7105.3	7168.7	7116.3	7137.0
17.5°	5942.9	5970.0	6017.6	5965.2	5979.5
20°	4498.5	4573.0	4599.9	4539.7	4606.4
22.5°	2814.6	2993.7	3008.0	2976.2	2876.3
25°	1203.5	1639.6	1691.9	1619.0	1184.4
27.5°	486.8	621.5	805.5	608.9	474.1
30°	275.9	299.7	350.5	295.0	280.7
32.5°	131.7	168.0	201.4	163.3	133.2
35°	69.8	87.2	120.5	85.7	68.2
37.5°	39.7	50.7	72.9	47.6	39.7
40°	23.8	30.1	42.9	28.5	22.2
42.5°	15.9	19.1	23.8	17.4	14.3
45°	11.0	11.0	14.3	11.0	9.5
47.5°	7.9	7.9	9.5	6.3	6.3
50°	6.3	6.3	6.3	4.7	4.7
52.5°	4.7	4.7	4.7	3.1	3.1
55°	3.1	3.1	3.1	3.1	1.6
57.5°	3.1	3.1	3.1	1.6	1.6
60°	3.1	3.1	1.6	1.6	1.6
62.5°	1.6	1.6	1.6	1.6	1.6
65°	1.6	1.6	1.6	1.6	1.6
67.5°	1.6	1.6	1.6	1.6	1.6
70°	1.6	1.6	1.6	1.6	0.0
72.5°	1.6	1.6	1.6	1.6	1.6
75°	0.0	1.6	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	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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