

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: P1212199

Luminaire Tested: **LDSQA4A20930D010TE 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: P1212199
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: LDSQA4A20930D010TE LAR35FL 4LSQA1H
Description: PORTFOLIO 4" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,
SELF-FLANGED, 35° FLOOD
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

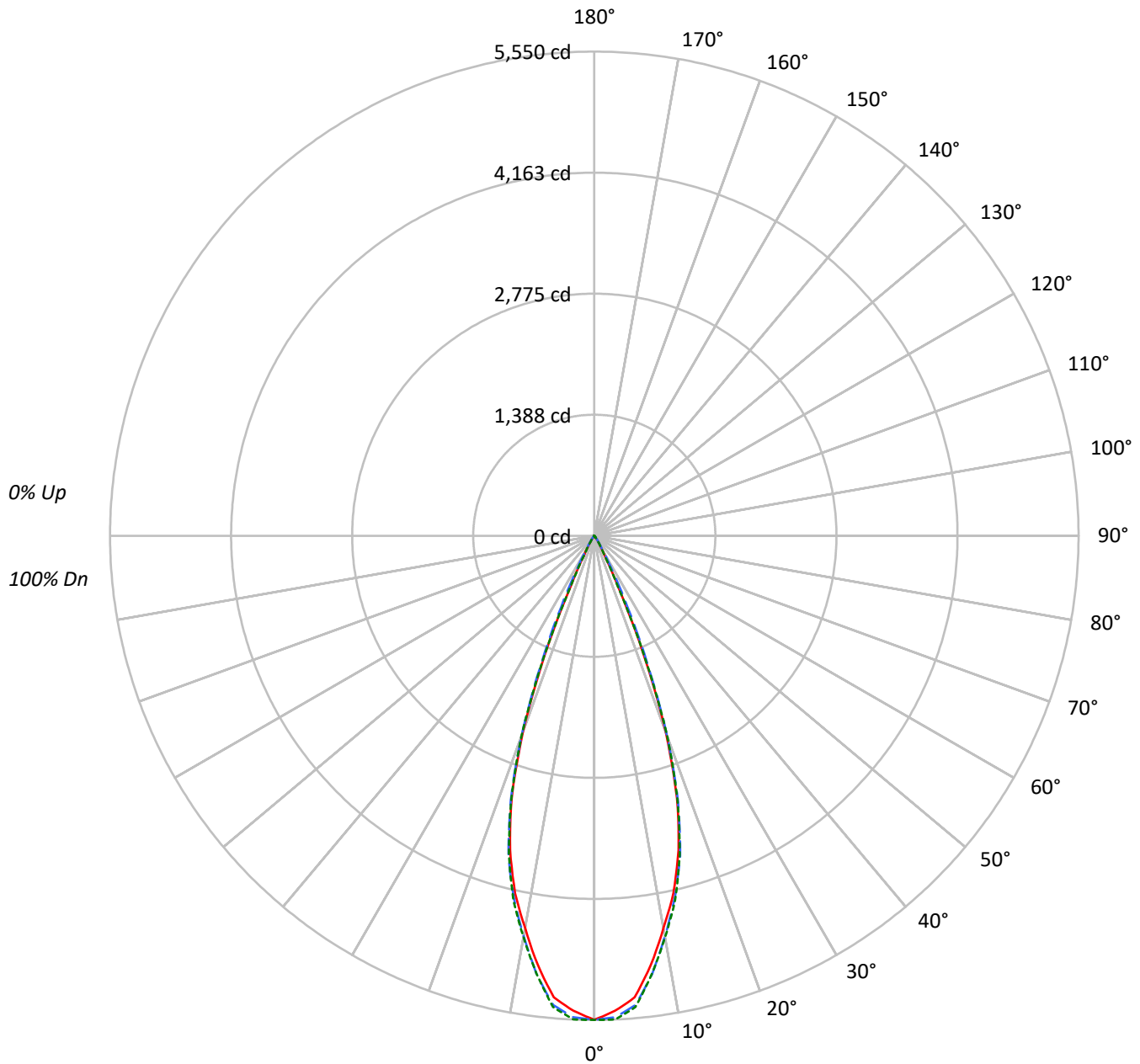
Lumens per Lamp: N/A
Luminaire Lumens: 1977.0 lumens
Efficiency: N/A
Efficacy: 68.6 lumens/watt
Spacing Criteria (0/90/45): 0.62 / 0.63 / 0.57
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 28.8
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	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°	537513	537513	537513
5°	516519	525184	527314
10°	449147	458325	459653
15°	374132	381133	379448
20°	245845	251391	251732
25°	68185	95870	67106
30°	16354	20784	16645
35°	4376	7545	4281
40°	1593	2858	1492
45°	808	1041	685
50°	512	512	377
55°	287	287	135
60°	329	155	155
65°	183	183	183
70°	227	227	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	487.6	24.7
10°-20°	1011.0	51.1
20°-30°	431.8	21.8
30°-40°	38.1	1.9
40°-50°	5.7	0.3
50°-60°	1.6	0.1
60°-70°	0.8	0.0
70°-80°	0.4	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°	1930.4	97.6
0°-40°	1968.6	99.6
0°-60°	1975.9	99.9
0°-90°	1977.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1977.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5548	5548	5548	5548	5548	
5°	5312	5355	5401	5392	5422	481
15°	3730	3767	3800	3772	3783	1000
25°	638	869	897	858	628	391
35°	37	46	64	45	36	31
45°	6	6	8	6	5	5
55°	2	2	2	2	1	2
65°	1	1	1	1	1	1
75°	0	1	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°	5548.5	5548.5	5548.5	5548.5	5548.5
2.5°	5451.0	5489.8	5524.2	5521.7	5550.2
5°	5311.5	5355.2	5400.6	5392.2	5422.5
7.5°	4963.5	5008.0	5066.9	5044.2	5064.4
10°	4565.9	4613.0	4659.2	4645.0	4672.7
12.5°	4193.6	4220.4	4254.2	4251.5	4281.0
15°	3730.4	3766.6	3800.2	3772.4	3783.4
17.5°	3150.5	3164.7	3189.9	3162.2	3169.7
20°	2384.7	2424.2	2438.5	2406.6	2441.8
22.5°	1492.0	1587.0	1594.6	1577.8	1524.7
25°	637.9	869.1	896.9	858.2	627.8
27.5°	258.0	329.4	427.0	322.8	251.4
30°	146.2	158.9	185.8	156.3	148.8
32.5°	69.8	89.1	106.7	86.6	70.6
35°	37.0	46.2	63.8	45.4	36.2
37.5°	21.0	27.0	38.7	25.2	21.0
40°	12.6	16.0	22.6	15.0	11.8
42.5°	8.4	10.1	12.6	9.3	7.6
45°	5.9	5.9	7.6	5.9	5.0
47.5°	4.2	4.2	5.0	3.4	3.4
50°	3.4	3.4	3.4	2.5	2.5
52.5°	2.5	2.5	2.5	1.7	1.7
55°	1.7	1.7	1.7	1.7	0.8
57.5°	1.7	1.7	1.7	0.8	0.8
60°	1.7	1.7	0.8	0.8	0.8
62.5°	0.8	0.8	0.8	0.8	0.8
65°	0.8	0.8	0.8	0.8	0.8
67.5°	0.8	0.8	0.8	0.8	0.8
70°	0.8	0.8	0.8	0.8	0.0
72.5°	0.8	0.8	0.8	0.8	0.8
75°	0.0	0.8	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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