

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: P1212255

Luminaire Tested: **LDSQA4A25930D010TE 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: P1212255
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: LDSQA4A25930D010TE 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

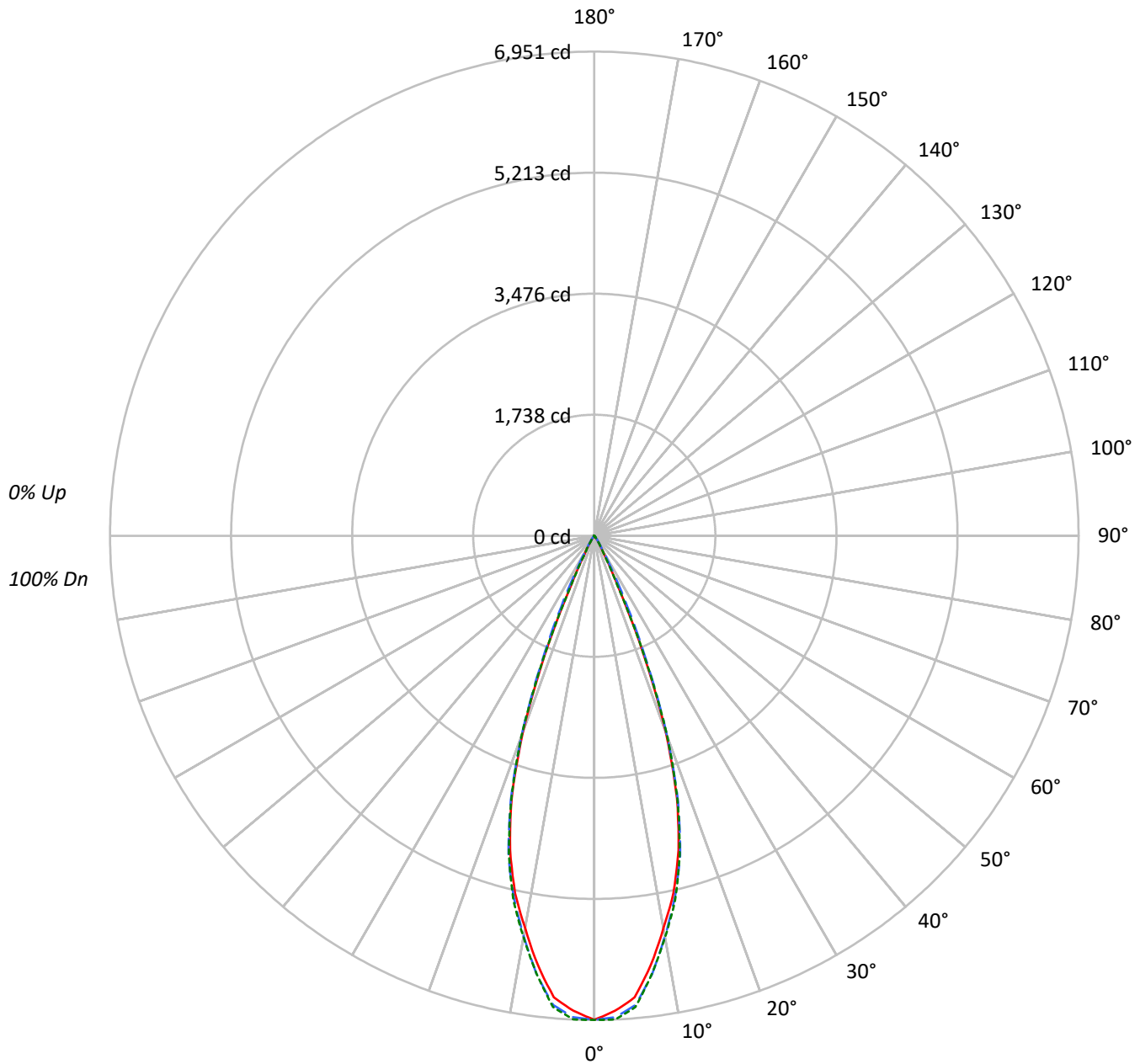
Lumens per Lamp: N/A
Luminaire Lumens: 2476.1 lumens
Efficiency: N/A
Efficacy: 80.1 lumens/watt
Spacing Criteria (0/90/45): 0.62 / 0.63 / 0.57
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 30.9
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°	673178	673178	673178
5°	646887	657730	660394
10°	562518	574008	575670
15°	468568	477324	475217
20°	307897	314835	315268
25°	85405	120070	84058
30°	20493	26019	20840
35°	5476	9461	5357
40°	1998	3604	1859
45°	1000	1302	863
50°	633	633	467
55°	355	355	186
60°	407	213	213
65°	252	252	252
70°	312	312	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	610.7	24.7
10°-20°	1266.2	51.1
20°-30°	540.8	21.8
30°-40°	47.8	1.9
40°-50°	7.1	0.3
50°-60°	2.0	0.1
60°-70°	1.1	0.0
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°	2417.7	97.6
0°-40°	2465.4	99.6
0°-60°	2474.5	99.9
0°-90°	2476.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2476.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6949	6949	6949	6949	6949	
5°	6652	6707	6764	6753	6791	603
15°	4672	4717	4759	4725	4738	1253
25°	799	1088	1123	1075	786	490
35°	46	58	80	57	45	39
45°	7	7	10	7	6	6
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	0

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6948.9	6948.9	6948.9	6948.9	6948.9
2.5°	6826.9	6875.3	6918.4	6915.2	6951.1
5°	6652.1	6706.8	6763.6	6753.2	6791.0
7.5°	6216.3	6272.1	6345.8	6317.4	6342.6
10°	5718.4	5777.3	5835.2	5817.2	5852.1
12.5°	5252.0	5285.6	5327.8	5324.7	5361.4
15°	4672.0	4717.2	4759.3	4724.6	4738.3
17.5°	3945.6	3963.5	3995.1	3960.3	3969.8
20°	2986.6	3036.0	3053.9	3013.9	3058.1
22.5°	1868.5	1987.5	1997.0	1976.0	1909.6
25°	799.0	1088.4	1123.3	1074.9	786.4
27.5°	323.3	412.6	534.8	404.3	314.7
30°	183.2	198.9	232.6	195.8	186.3
32.5°	87.4	111.5	133.7	108.4	88.4
35°	46.3	57.9	80.0	56.8	45.3
37.5°	26.3	33.7	48.4	31.6	26.3
40°	15.8	19.9	28.5	18.9	14.7
42.5°	10.6	12.7	15.8	11.6	9.5
45°	7.3	7.3	9.5	7.3	6.3
47.5°	5.2	5.2	6.3	4.2	4.2
50°	4.2	4.2	4.2	3.1	3.1
52.5°	3.1	3.1	3.1	2.1	2.1
55°	2.1	2.1	2.1	2.1	1.1
57.5°	2.1	2.1	2.1	1.1	1.1
60°	2.1	2.1	1.1	1.1	1.1
62.5°	1.1	1.1	1.1	1.1	1.1
65°	1.1	1.1	1.1	1.1	1.1
67.5°	1.1	1.1	1.1	1.1	1.1
70°	1.1	1.1	1.1	1.1	0.0
72.5°	1.1	1.1	1.1	1.1	1.1
75°	0.0	1.1	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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