

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: P1219492

Luminaire Tested: **LDSQA4A15935D010TE LAR25NF 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: P1219492
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26785)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDSQA4A15935D010TE LAR25NF 4LSQA1H
Description: PORTFOLIO 4" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,
SELF-FLANGED, 25° NARROW FLOOD
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

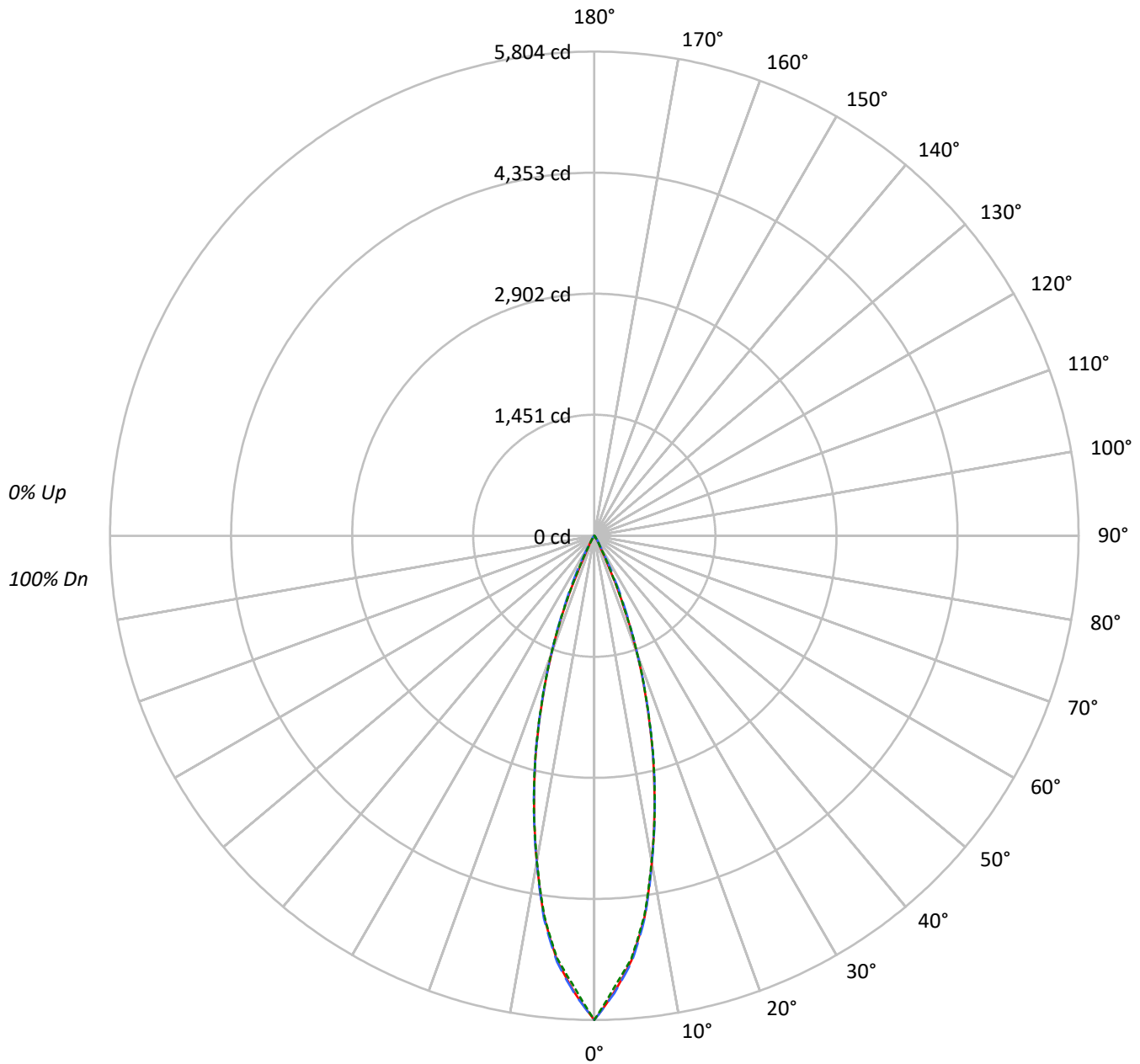
Lumens per Lamp: N/A
Luminaire Lumens: 1505.1 lumens
Efficiency: N/A
Efficacy: 73.8 lumens/watt
Spacing Criteria (0/90/45): 0.47 / 0.47 / 0.49
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 20.4
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	113	111	109	107		107	105	104			103	102	101			100
2	111	108	105	102	109	106	103	101		103	101	99			100	98	97			97
3	108	103	99	96	106	102	98	96		99	96	94			97	95	93			95
4	104	99	95	92	103	98	94	91		96	93	90			94	91	89			92
5	101	95	91	88	100	94	90	88		93	89	87			91	88	86			90
6	98	92	88	84	97	91	87	84		90	86	84			88	85	83			87
7	95	89	84	81	94	88	84	81		87	83	81			86	83	80			85
8	92	86	82	79	91	85	81	79		84	81	78			84	80	78			83
9	90	83	79	76	89	83	79	76		82	78	76			81	78	76			80
10	87	81	77	74	87	80	76	74		80	76	74			79	76	73			78

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	562313	562313	562313
5°	497051	498753	494522
10°	390666	391109	389456
15°	271954	272726	272927
20°	154278	155278	155814
25°	41591	62937	46786
30°	10303	14072	10582
35°	3063	6434	3300
40°	1227	2125	1227
45°	630	877	534
50°	392	392	196
55°	338	220	118
60°	252	136	136
65°	160	160	160
70°	198	198	0
75°	0	0	0
80°	0	0	0
85°	0	0	0

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	455.4	30.3
10°-20°	740.5	49.2
20°-30°	275.3	18.3
30°-40°	27.3	1.8
40°-50°	4.6	0.3
50°-60°	1.3	0.1
60°-70°	0.7	0.0
70°-80°	0.1	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°	1471.1	97.7
0°-40°	1498.5	99.6
0°-60°	1504.3	99.9
0°-90°	1505.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1505.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5804	5804	5804	5804	5804	
5°	5111	5163	5129	5189	5085	453
15°	2712	2742	2719	2764	2721	734
25°	389	571	589	550	438	243
35°	26	32	54	34	28	21
45°	5	5	6	5	4	4
55°	2	1	1	1	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°	5804.5	5804.5	5804.5	5804.5	5804.5
2.5°	5477.7	5506.9	5488.7	5537.3	5420.0
5°	5111.3	5162.6	5128.8	5189.1	5085.3
7.5°	4608.2	4661.3	4627.0	4685.3	4592.6
10°	3971.4	4011.0	3975.9	4032.4	3959.1
12.5°	3334.7	3374.2	3348.3	3400.2	3341.8
15°	2711.6	2742.1	2719.3	2764.1	2721.3
17.5°	2078.8	2107.9	2087.2	2123.5	2091.1
20°	1496.5	1521.8	1506.2	1536.7	1511.4
22.5°	929.1	996.6	1007.6	1010.2	936.9
25°	389.1	571.2	588.8	549.8	437.7
27.5°	160.2	210.1	280.1	221.1	168.6
30°	92.1	107.0	125.8	110.2	94.6
32.5°	46.0	59.7	82.4	62.9	48.6
35°	25.9	32.4	54.4	33.8	27.9
37.5°	15.5	18.8	27.2	19.4	16.2
40°	9.7	11.7	16.8	12.3	9.7
42.5°	6.4	7.8	10.4	7.8	6.4
45°	4.6	5.1	6.4	5.1	3.9
47.5°	3.3	3.3	3.9	3.3	2.6
50°	2.6	2.6	2.6	2.0	1.3
52.5°	2.0	2.0	2.0	1.3	1.3
55°	2.0	1.3	1.3	1.3	0.7
57.5°	1.3	1.3	1.3	0.7	0.7
60°	1.3	1.3	0.7	0.7	0.7
62.5°	0.7	0.7	0.7	0.7	0.7
65°	0.7	0.7	0.7	0.7	0.7
67.5°	0.7	0.7	0.7	0.7	0.7
70°	0.7	0.7	0.7	0.7	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.7	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

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— 0°-180° - - 45°-225° - - - 90°-270°

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