

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: P1212375

Luminaire Tested: **LDSQA4A35935D010TE LAR15SP 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: P1212375
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26796)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDSQA4A35935D010TE LAR15SP 4LSQAL1H
Description: PORTFOLIO 4" SQUARE LENSED ADJUSTABLE, SELF-FLANGED, 15° SPOT
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

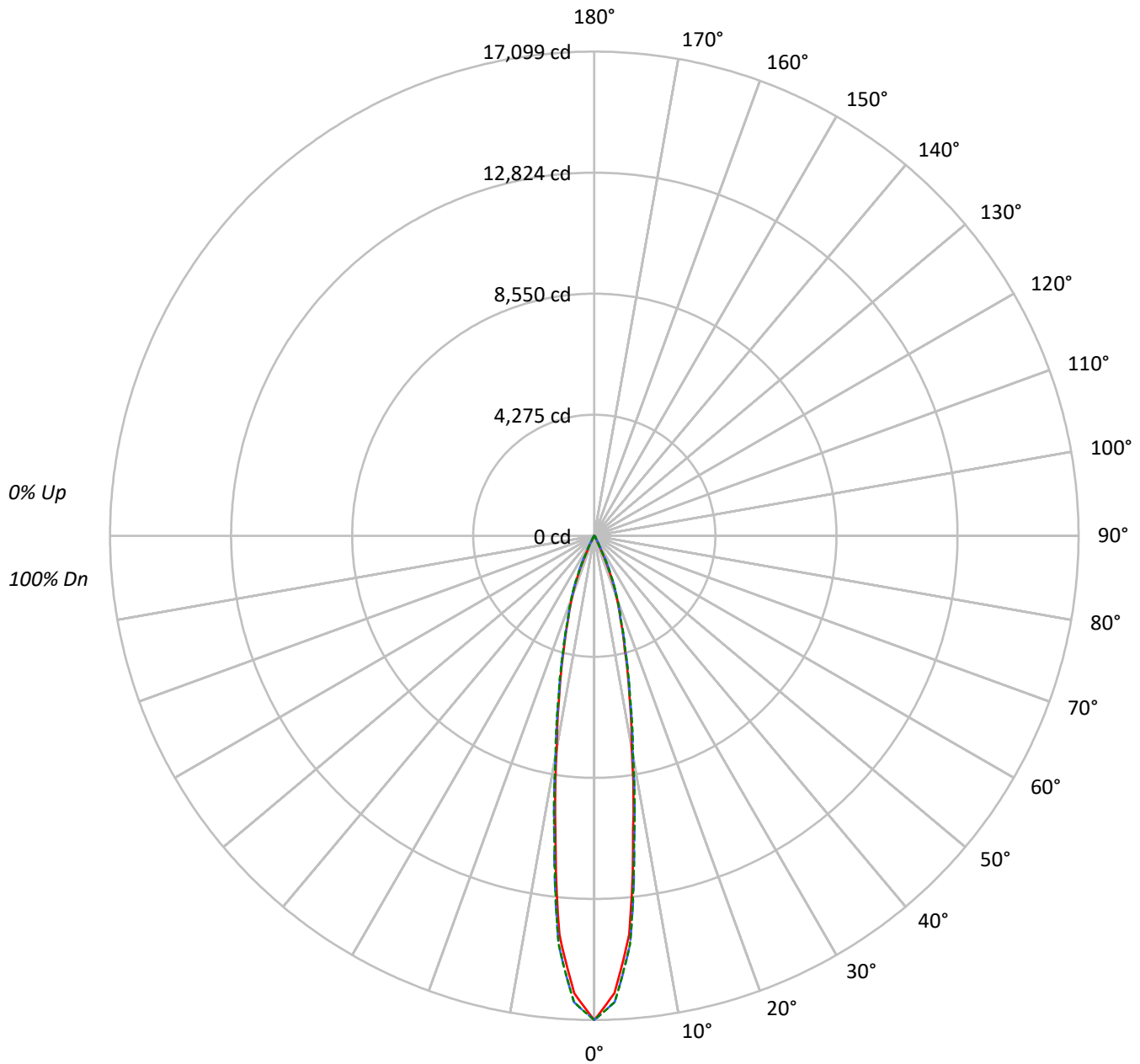
Lumens per Lamp: N/A
Luminaire Lumens: 2853.6 lumens
Efficiency: N/A
Efficacy: 59.8 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.32 / 0.36
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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	110	113	111	109	108	107	106	105		103	102	102		100
2	112	108	105	103	110	107	104	102	103	101	100		101	99	98		98
3	108	104	100	98	107	103	99	97	100	98	95		98	96	94		96
4	105	100	96	94	104	99	96	93	97	94	92		95	93	91		94
5	102	97	93	90	101	96	92	90	94	91	89		93	90	88		92
6	100	94	90	87	98	93	89	87	92	89	86		91	88	86		89
7	97	91	87	84	96	90	87	84	89	86	84		88	85	83		87
8	95	88	85	82	94	88	84	82	87	84	81		86	83	81		85
9	92	86	82	80	92	86	82	80	85	82	79		84	81	79		84
10	90	84	80	78	89	84	80	78	83	80	77		82	79	77		82

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1656512	1656512	1656512
5°	1374049	1409612	1407619
10°	748713	770817	774722
15°	416295	428220	430437
20°	234711	241371	244392
25°	70644	104090	70334
30°	13300	19072	13300
35°	5736	8858	5901
40°	2782	4629	2782
45°	1822	2411	1397
50°	1115	1326	678
55°	760	760	490
60°	562	291	291
65°	344	344	344
70°	0	425	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1138.5	39.9
10°-20°	1213.5	42.5
20°-30°	442.6	15.5
30°-40°	42.2	1.5
40°-50°	11.6	0.4
50°-60°	3.5	0.1
60°-70°	1.5	0.1
70°-80°	0.3	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°	2794.6	97.9
0°-40°	2836.8	99.4
0°-60°	2851.9	99.9
0°-90°	2853.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2853.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	17099	17099	17099	17099	17099	
5°	14130	14487	14495	14344	14475	1116
15°	4151	4249	4270	4261	4292	1187
25°	661	956	974	965	658	382
35°	48	59	75	59	50	34
45°	13	13	18	13	10	10
55°	4	4	4	3	3	4
65°	2	2	2	2	2	1
75°	0	2	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°	17099.4	17099.4	17099.4	17099.4	17099.4
2.5°	16166.9	16507.6	16482.7	16406.3	16482.7
5°	14129.7	14486.6	14495.4	14344.1	14474.9
7.5°	10503.2	10779.4	10827.9	10679.5	10777.9
10°	7611.2	7858.0	7835.9	7806.6	7875.6
12.5°	5685.7	5810.5	5797.2	5829.6	5834.0
15°	4150.8	4249.2	4269.7	4260.9	4291.8
17.5°	3056.5	3109.4	3099.1	3115.2	3127.0
20°	2276.7	2360.3	2341.3	2355.9	2370.6
22.5°	1509.9	1664.2	1645.0	1668.5	1655.3
25°	660.9	956.2	973.8	965.0	658.0
27.5°	202.7	342.2	439.2	334.9	202.7
30°	118.9	142.4	170.5	139.6	118.9
32.5°	74.9	89.6	107.2	88.2	73.4
35°	48.5	58.8	74.9	58.8	49.9
37.5°	32.3	39.7	52.9	39.7	33.8
40°	22.0	26.4	36.6	27.9	22.0
42.5°	16.1	19.1	25.0	19.1	14.7
45°	13.3	13.3	17.6	13.3	10.2
47.5°	10.2	10.2	11.7	8.8	7.4
50°	7.4	7.4	8.8	5.9	4.5
52.5°	4.5	5.9	5.9	4.5	2.9
55°	4.5	4.5	4.5	2.9	2.9
57.5°	2.9	2.9	2.9	1.5	1.5
60°	2.9	2.9	1.5	1.5	1.5
62.5°	1.5	1.5	1.5	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°	0.0	1.5	1.5	0.0	0.0
72.5°	0.0	1.5	0.0	0.0	0.0
75°	0.0	1.5	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

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— 0°-180° - - 45°-225° - - - 90°-270°

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