

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: P1219532

Luminaire Tested: **LDSQA4A20950D010TE 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: P1219532
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: LDSQA4A20950D010TE LAR15SP 4LSQAL1H
Description: PORTFOLIO 4" SQUARE LENSED ADJUSTABLE, SELF-FLANGED, 15° SPOT
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

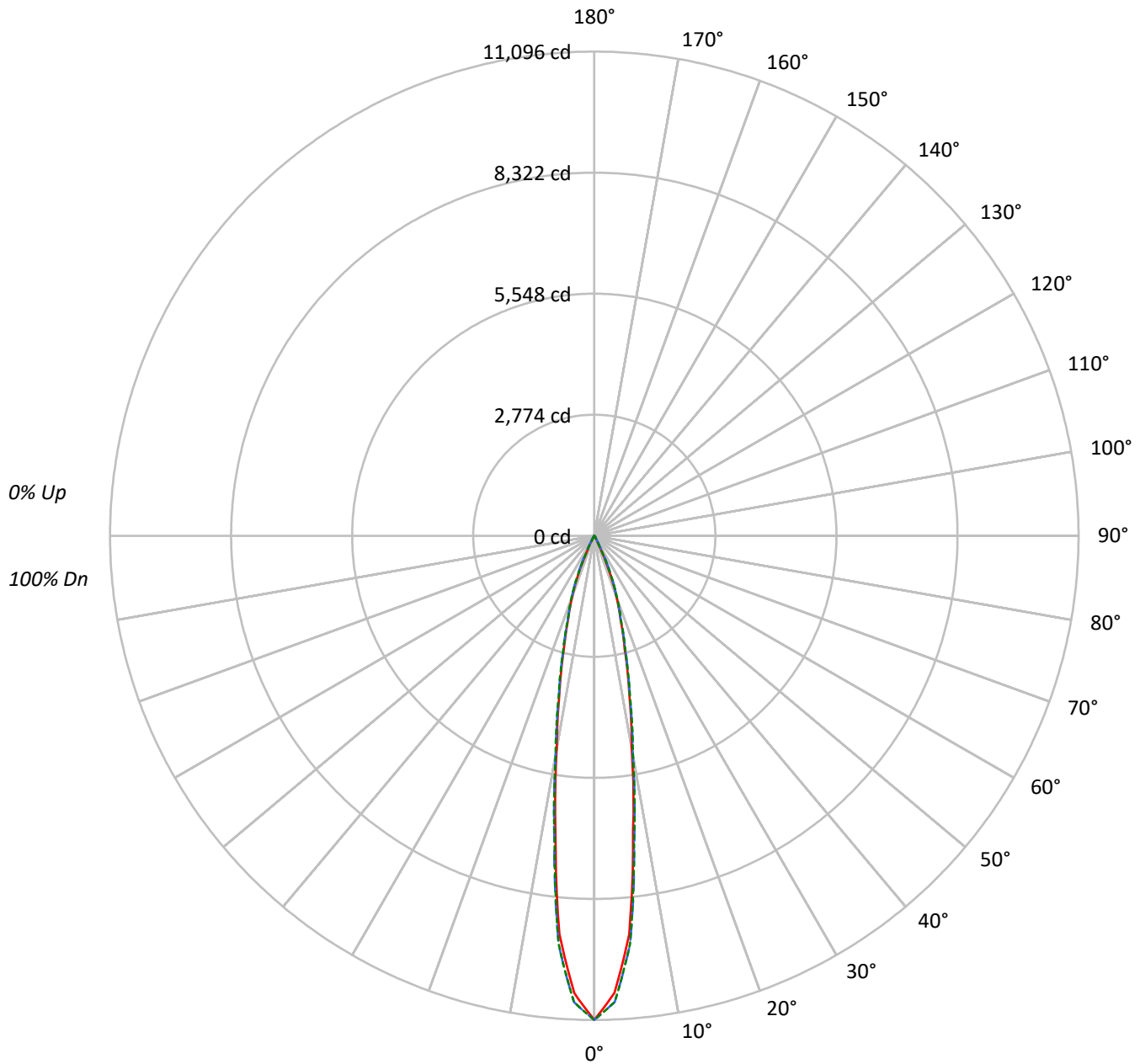
Lumens per Lamp: N/A
Luminaire Lumens: 1851.7 lumens
Efficiency: N/A
Efficacy: 64.3 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.32 / 0.36
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100
1	115	113	111	110	113	111	109	108	107	106	105	103	102	102	100	99	99	97	97	97
2	112	108	105	103	110	107	104	102	103	101	100	101	99	98	98	97	96	94	94	94
3	108	104	100	98	107	103	99	97	100	98	95	98	96	94	96	94	93	91	91	91
4	105	100	96	94	104	99	96	93	97	94	92	95	93	91	94	92	90	89	89	89
5	102	97	93	90	101	96	92	90	94	91	89	93	90	88	92	89	87	86	86	86
6	100	94	90	87	98	93	89	87	92	89	86	91	88	86	89	87	85	84	84	84
7	97	91	87	84	96	90	87	84	89	86	84	88	85	83	87	85	83	82	82	82
8	95	88	85	82	94	88	84	82	87	84	81	86	83	81	85	83	81	80	80	80
9	92	86	82	80	92	86	82	80	85	82	79	84	81	79	84	81	79	78	78	78
10	90	84	80	78	89	84	80	78	83	80	77	82	79	77	82	79	77	76	76	76

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1074910	1074910	1074910
5°	891585	914691	913388
10°	485839	500172	502709
15°	270129	277881	279305
20°	152289	156618	158587
25°	45835	67544	45642
30°	8636	12372	8636
35°	3713	5748	3832
40°	1821	3010	1821
45°	1165	1562	932
50°	723	859	422
55°	473	473	321
60°	368	194	194
65°	229	229	229
70°	0	283	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	738.7	39.9
10°-20°	787.4	42.5
20°-30°	287.2	15.5
30°-40°	27.4	1.5
40°-50°	7.6	0.4
50°-60°	2.2	0.1
60°-70°	1.0	0.1
70°-80°	0.2	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°	1813.4	97.9
0°-40°	1840.7	99.4
0°-60°	1850.5	99.9
0°-90°	1851.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1851.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11096	11096	11096	11096	11096	
5°	9168	9400	9406	9308	9393	724
15°	2693	2757	2771	2765	2785	771
25°	429	620	632	626	427	248
35°	31	38	49	38	32	22
45°	8	8	11	8	7	7
55°	3	3	3	2	2	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°	11095.8	11095.8	11095.8	11095.8	11095.8
2.5°	10490.5	10711.7	10695.5	10645.9	10695.5
5°	9168.4	9400.1	9406.0	9307.8	9392.6
7.5°	6815.4	6994.6	7026.0	6929.8	6993.6
10°	4938.9	5099.0	5084.6	5065.5	5110.4
12.5°	3689.3	3770.4	3761.8	3782.8	3785.6
15°	2693.4	2757.2	2770.7	2764.9	2784.9
17.5°	1983.3	2017.6	2011.0	2021.6	2029.0
20°	1477.2	1531.5	1519.2	1528.7	1538.3
22.5°	979.7	1079.8	1067.5	1082.6	1074.1
25°	428.8	620.5	631.9	626.2	427.0
27.5°	131.6	222.0	285.1	217.4	131.6
30°	77.2	92.6	110.6	90.5	77.2
32.5°	48.6	58.1	69.6	57.2	47.6
35°	31.4	38.1	48.6	38.1	32.4
37.5°	21.0	25.7	34.3	25.7	21.9
40°	14.4	17.3	23.8	18.1	14.4
42.5°	10.5	12.5	16.2	12.5	9.5
45°	8.5	8.5	11.4	8.5	6.8
47.5°	6.8	6.8	7.6	5.7	4.8
50°	4.8	4.8	5.7	3.8	2.8
52.5°	2.8	3.8	3.8	2.8	1.9
55°	2.8	2.8	2.8	1.9	1.9
57.5°	1.9	1.9	1.9	1.0	1.0
60°	1.9	1.9	1.0	1.0	1.0
62.5°	1.0	1.0	1.0	1.0	1.0
65°	1.0	1.0	1.0	1.0	1.0
67.5°	1.0	1.0	1.0	1.0	1.0
70°	0.0	1.0	1.0	0.0	0.0
72.5°	0.0	1.0	0.0	0.0	0.0
75°	0.0	1.0	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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