

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: P1219448

Luminaire Tested: **LDSQA4A10950D010TE LAR15SP 4LSQAL1H**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P1219448
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: LDSQA4A10950D010TE 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

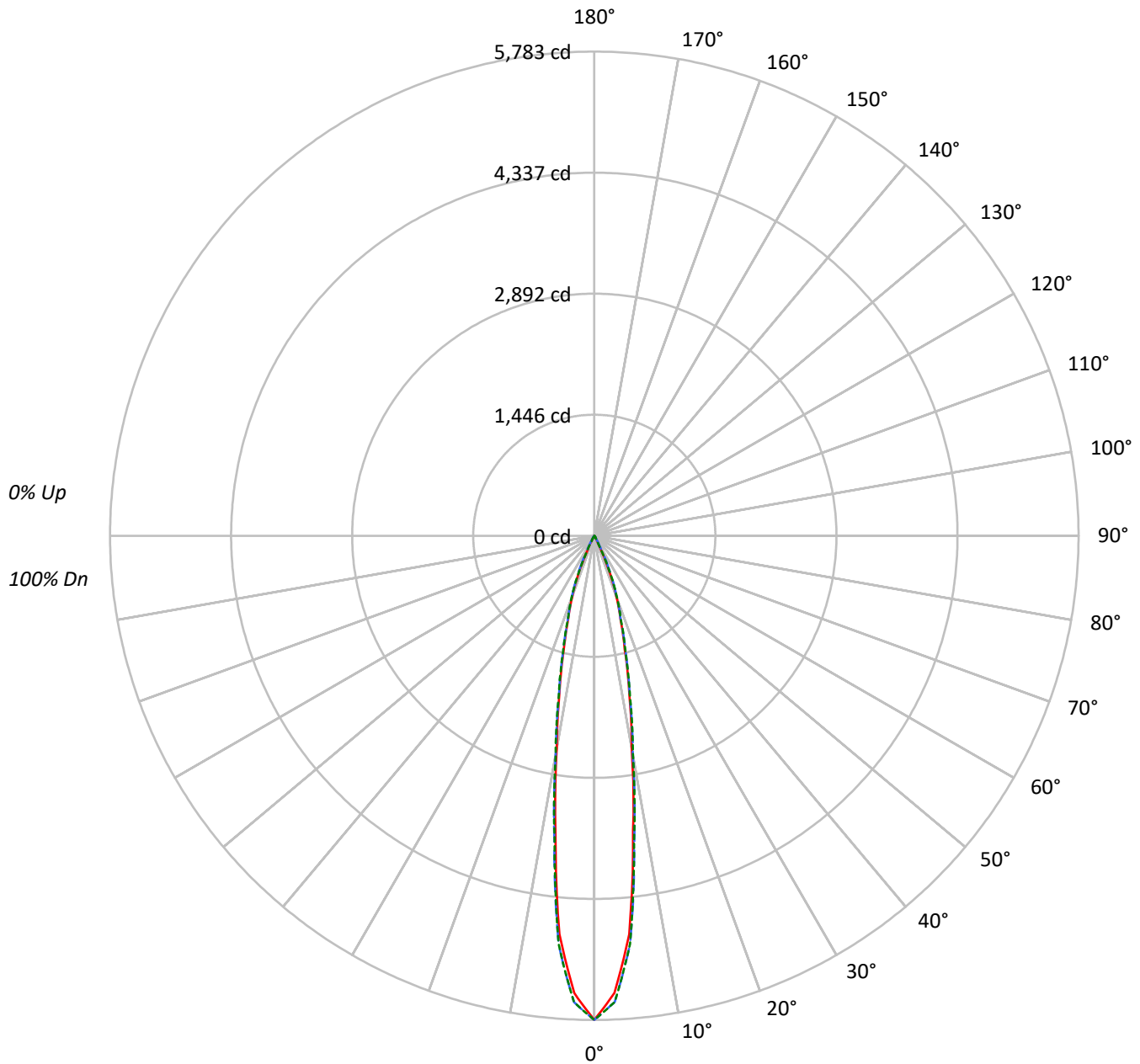
Lumens per Lamp: N/A
Luminaire Lumens: 965.0 lumens
Efficiency: N/A
Efficacy: 77.8 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.32 / 0.36
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 12.4
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



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

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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°	560192	560192	560192
5°	464668	476688	476026
10°	253194	260670	261989
15°	140781	144813	145555
20°	79371	81629	82639
25°	23890	35199	23794
30°	4497	6443	4497
35°	1940	3004	1987
40°	948	1568	948
45°	617	808	466
50°	377	452	226
55°	253	253	169
60°	194	97	97
65°	115	115	115
70°	0	142	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	385.0	39.9
10°-20°	410.4	42.5
20°-30°	149.7	15.5
30°-40°	14.3	1.5
40°-50°	3.9	0.4
50°-60°	1.2	0.1
60°-70°	0.5	0.1
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°	945.0	97.9
0°-40°	959.3	99.4
0°-60°	964.4	99.9
0°-90°	965.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	965.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5783	5783	5783	5783	5783	
5°	4778	4899	4902	4851	4895	378
15°	1404	1437	1444	1441	1451	402
25°	224	323	329	326	223	129
35°	16	20	25	20	17	12
45°	4	4	6	4	3	4
55°	2	2	2	1	1	1
65°	0	0	0	0	0	0
75°	0	0	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°	5782.6	5782.6	5782.6	5782.6	5782.6
2.5°	5467.3	5582.5	5574.0	5548.2	5574.0
5°	4778.3	4899.0	4901.9	4850.8	4895.1
7.5°	3551.9	3645.3	3661.7	3611.5	3644.8
10°	2573.9	2657.4	2649.9	2639.9	2663.3
12.5°	1922.8	1965.0	1960.5	1971.4	1972.9
15°	1403.7	1437.0	1443.9	1440.9	1451.3
17.5°	1033.7	1051.5	1048.0	1053.5	1057.5
20°	769.9	798.2	791.8	796.7	801.6
22.5°	510.6	562.7	556.3	564.3	559.8
25°	223.5	323.3	329.3	326.4	222.6
27.5°	68.5	115.8	148.5	113.3	68.5
30°	40.2	48.2	57.6	47.2	40.2
32.5°	25.4	30.3	36.3	29.8	24.9
35°	16.4	19.9	25.4	19.9	16.8
37.5°	10.9	13.4	17.9	13.4	11.4
40°	7.5	8.9	12.4	9.5	7.5
42.5°	5.5	6.4	8.4	6.4	5.0
45°	4.5	4.5	5.9	4.5	3.4
47.5°	3.4	3.4	4.0	3.0	2.5
50°	2.5	2.5	3.0	2.0	1.5
52.5°	1.5	2.0	2.0	1.5	1.0
55°	1.5	1.5	1.5	1.0	1.0
57.5°	1.0	1.0	1.0	0.5	0.5
60°	1.0	1.0	0.5	0.5	0.5
62.5°	0.5	0.5	0.5	0.5	0.5
65°	0.5	0.5	0.5	0.5	0.5
67.5°	0.5	0.5	0.5	0.5	0.5
70°	0.0	0.5	0.5	0.0	0.0
72.5°	0.0	0.5	0.0	0.0	0.0
75°	0.0	0.5	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

Scaled Data Report

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— 0°-180° - - 45°-225° - - - 90°-270°

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(END OF REPORT)