

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: P1219518

Luminaire Tested: **LDSQA4A15950D010TE LAR15SP 4LSQAL1H**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P1219518
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: LDSQA4A15950D010TE 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

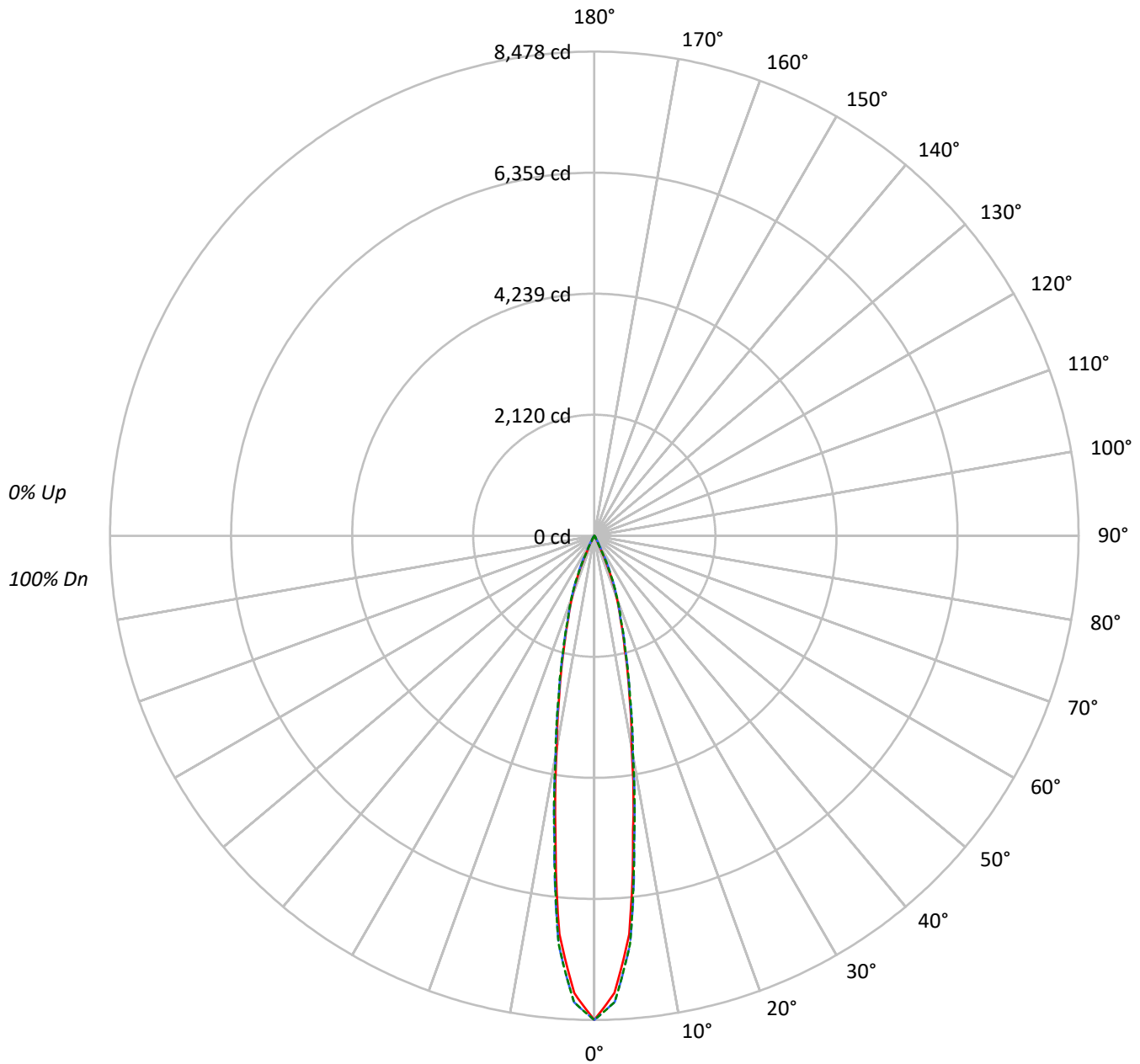
Lumens per Lamp: N/A
Luminaire Lumens: 1414.8 lumens
Efficiency: N/A
Efficacy: 69.4 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.32 / 0.36
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	821320	821320	821320
5°	681253	698884	697892
10°	371209	382177	384115
15°	206403	212310	213403
20°	116361	119660	121175
25°	35028	51607	34868
30°	6600	9441	6600
35°	2838	4388	2933
40°	1378	2302	1378
45°	904	1192	712
50°	543	663	332
55°	372	372	253
60°	291	136	136
65°	160	160	160
70°	0	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°	564.5	39.9
10°-20°	601.7	42.5
20°-30°	219.4	15.5
30°-40°	20.9	1.5
40°-50°	5.8	0.4
50°-60°	1.7	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°	1385.6	97.9
0°-40°	1406.5	99.4
0°-60°	1414.0	99.9
0°-90°	1414.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1414.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8478	8478	8478	8478	8478	
5°	7006	7182	7187	7112	7177	553
15°	2058	2107	2117	2113	2128	589
25°	328	474	483	478	326	189
35°	24	29	37	29	25	17
45°	7	7	9	7	5	5
55°	2	2	2	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	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8478.1	8478.1	8478.1	8478.1	8478.1
2.5°	8015.5	8184.5	8172.1	8134.3	8172.1
5°	7005.5	7182.4	7186.8	7111.8	7176.6
7.5°	5207.5	5344.5	5368.5	5295.0	5343.7
10°	3773.6	3896.0	3885.1	3870.5	3904.8
12.5°	2818.9	2880.8	2874.4	2890.3	2892.6
15°	2058.0	2106.7	2116.9	2112.6	2127.8
17.5°	1515.5	1541.6	1536.6	1544.6	1550.3
20°	1128.7	1170.2	1160.7	1168.1	1175.4
22.5°	748.6	825.1	815.7	827.3	820.7
25°	327.7	474.0	482.8	478.5	326.2
27.5°	100.5	169.7	217.8	166.1	100.5
30°	59.0	70.6	84.4	69.2	59.0
32.5°	37.1	44.4	53.1	43.7	36.4
35°	24.0	29.1	37.1	29.1	24.8
37.5°	16.0	19.7	26.2	19.7	16.7
40°	10.9	13.1	18.2	13.8	10.9
42.5°	8.0	9.5	12.4	9.5	7.3
45°	6.6	6.6	8.7	6.6	5.2
47.5°	5.2	5.2	5.8	4.4	3.6
50°	3.6	3.6	4.4	2.9	2.2
52.5°	2.2	2.9	2.9	2.2	1.5
55°	2.2	2.2	2.2	1.5	1.5
57.5°	1.5	1.5	1.5	0.7	0.7
60°	1.5	1.5	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°	0.0	0.7	0.7	0.0	0.0
72.5°	0.0	0.7	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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