

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: P1219446

Luminaire Tested: **LDSQA4A10950D010TE LAR15SP 4LSQA1H**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P1219446
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26794)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDSQA4A10950D010TE LAR15SP 4LSQA1H
Description: PORTFOLIO 4" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,
SELF-FLANGED, 15° SPOT
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

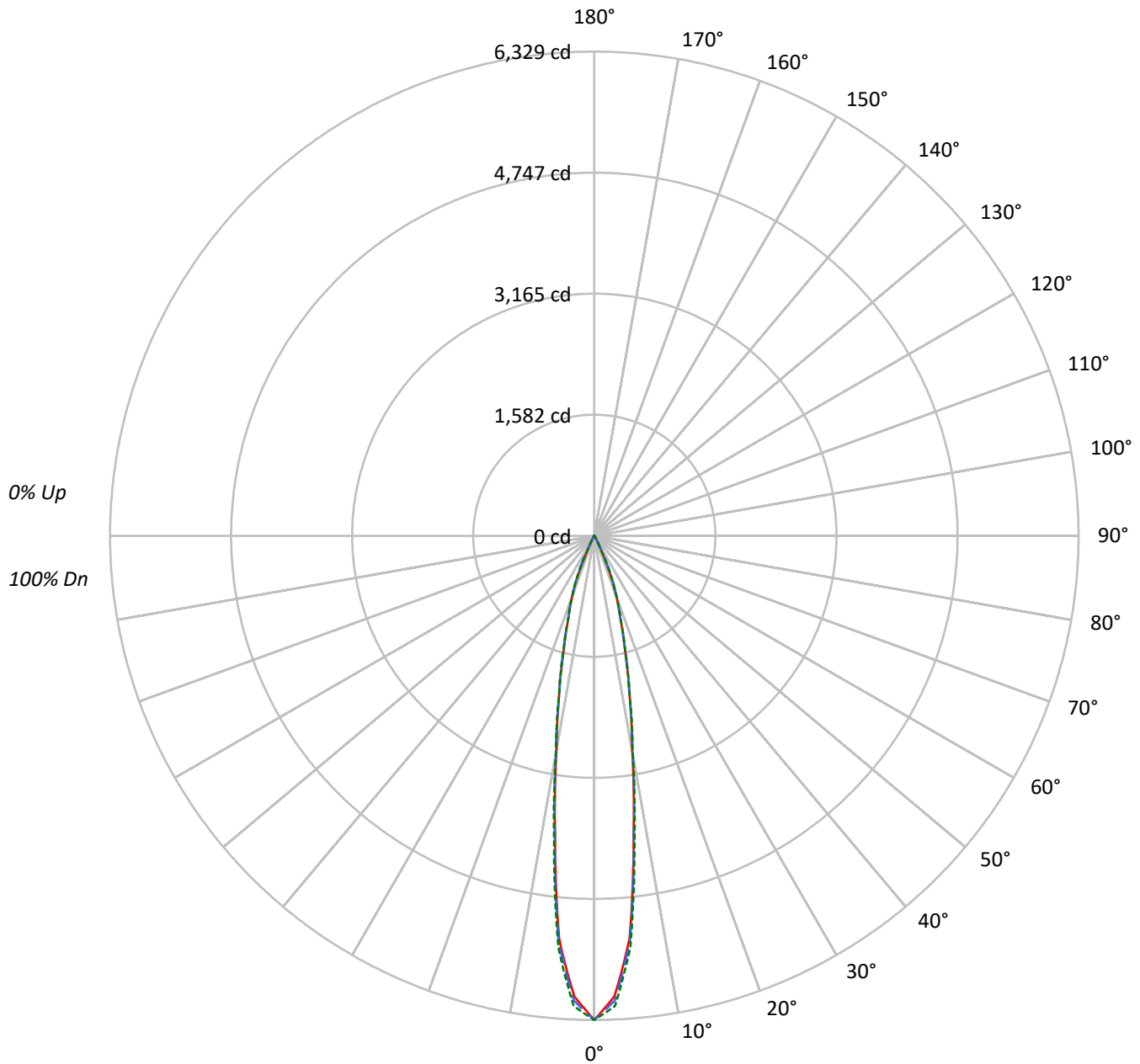
Lumens per Lamp: N/A
Luminaire Lumens: 1039.0 lumens
Efficiency: N/A
Efficacy: 83.8 lumens/watt
Spacing Criteria (0/90/45): 0.32 / 0.32 / 0.36
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	613086	613086	613086
5°	513865	518221	525748
10°	279567	283718	284801
15°	154591	157079	157690
20°	87546	87804	88309
25°	23890	37422	23462
30°	3826	5828	3725
35°	1289	2176	1230
40°	569	885	569
45°	343	411	274
50°	226	226	151
55°	169	169	84
60°	97	97	97
65°	115	115	115
70°	142	142	142
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	421.8	40.6
10°-20°	446.1	42.9
20°-30°	156.9	15.1
30°-40°	10.6	1.0
40°-50°	2.2	0.2
50°-60°	0.7	0.1
60°-70°	0.5	0.0
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°	1024.9	98.6
0°-40°	1035.4	99.7
0°-60°	1038.4	99.9
0°-90°	1039.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1039.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6329	6329	6329	6329	6329	
5°	5284	5364	5329	5339	5406	417
15°	1541	1567	1566	1563	1572	442
25°	224	339	350	334	220	138
35°	11	13	18	13	10	8
45°	2	2	3	2	2	2
55°	1	1	1	0	0	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	0

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6328.6	6328.6	6328.6	6328.6	6328.6
2.5°	6024.7	6103.7	6083.8	6070.9	6153.8
5°	5284.2	5363.7	5329.0	5338.9	5406.4
7.5°	3928.6	3995.6	3959.8	3974.8	4026.4
10°	2842.0	2908.6	2884.2	2892.1	2895.2
12.5°	2119.0	2148.2	2128.9	2134.4	2144.3
15°	1541.4	1567.3	1566.2	1562.8	1572.3
17.5°	1131.2	1143.7	1131.2	1130.8	1137.2
20°	849.2	866.5	851.7	853.6	856.6
22.5°	570.5	605.4	599.4	592.0	584.0
25°	223.5	339.1	350.1	333.7	219.5
27.5°	64.1	105.8	150.5	103.8	62.1
30°	34.2	40.8	52.1	39.7	33.3
32.5°	18.4	23.3	29.7	22.9	17.9
35°	10.9	13.4	18.4	13.4	10.4
37.5°	7.0	8.4	11.4	8.4	7.0
40°	4.5	5.5	7.0	5.5	4.5
42.5°	3.4	4.0	4.5	3.4	3.0
45°	2.5	2.5	3.0	2.5	2.0
47.5°	2.0	2.0	2.0	1.5	1.5
50°	1.5	1.5	1.5	1.0	1.0
52.5°	1.0	1.0	1.0	1.0	1.0
55°	1.0	1.0	1.0	0.5	0.5
57.5°	1.0	0.5	0.5	0.5	0.5
60°	0.5	0.5	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	0.0
70°	0.5	0.5	0.5	0.5	0.5
72.5°	0.5	0.5	0.5	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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