

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: P1212385

Luminaire Tested: **LDSQA4A35940D010TE LAR15SP 4LSQA1H-LSF-20**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P1212385
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26829)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDSQA4A35940D010TE LAR15SP 4LSQA1H-LSF-20
Description: PORTFOLIO 4" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,
SELF-FLANGED, 15° SPOT WITH SOLITE LENS
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

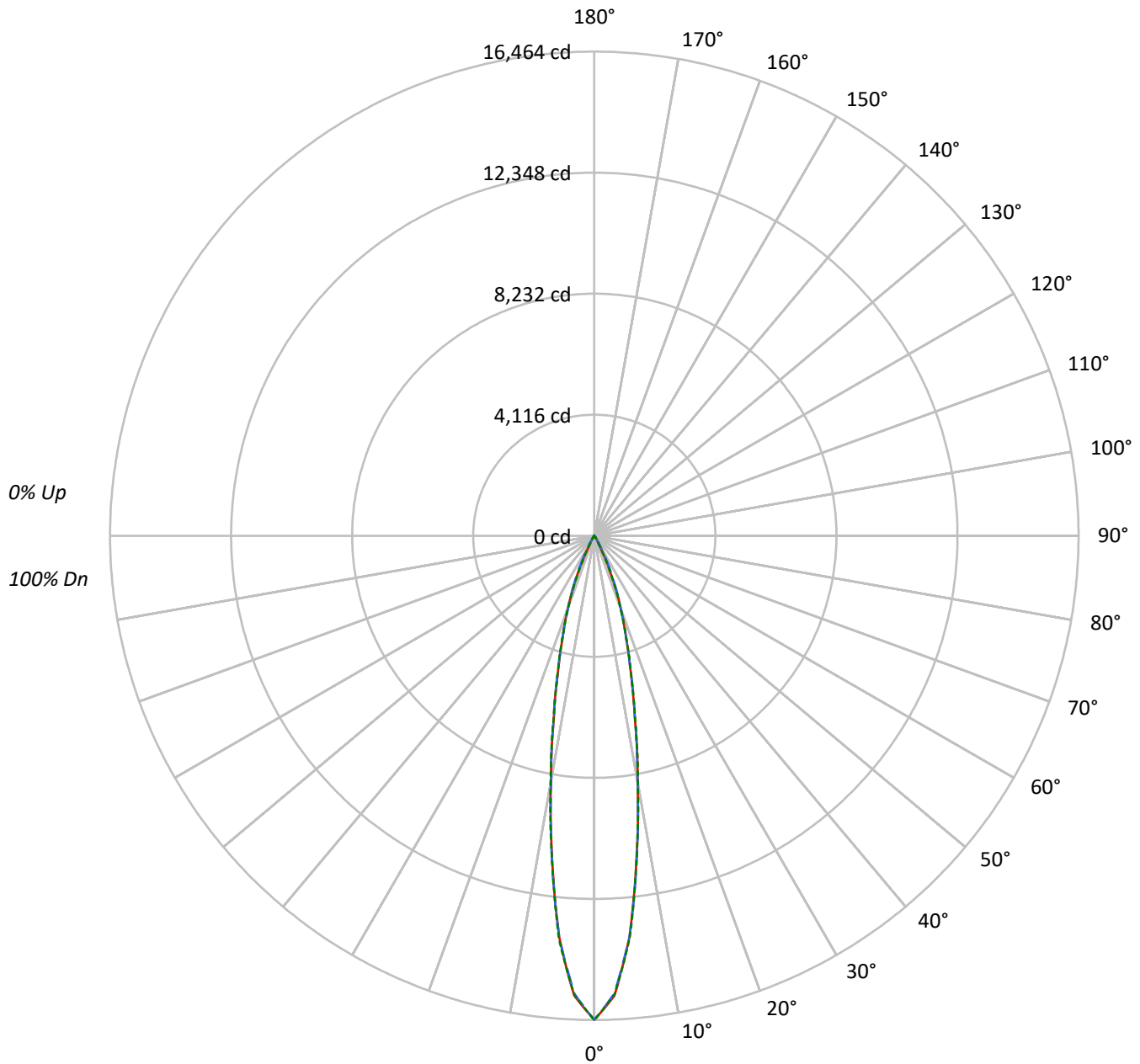
Lumens per Lamp: N/A
Luminaire Lumens: 3122.3 lumens
Efficiency: N/A
Efficacy: 65.5 lumens/watt
Spacing Criteria (0/90/45): 0.35 / 0.35 / 0.39
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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	109	113	111	109	108	107	106	104		103	102	101		100
2	111	108	105	102	109	106	104	101	103	101	99		100	99	97		98
3	108	103	100	97	106	102	99	96	100	97	95		97	95	93		95
4	105	99	96	93	103	98	95	92	96	93	91		95	92	90		93
5	102	96	92	89	100	95	91	89	93	90	88		92	89	87		91
6	99	93	89	86	98	92	88	85	91	87	85		89	87	84		88
7	96	90	86	83	95	89	85	83	88	85	82		87	84	82		86
8	94	87	83	80	93	87	83	80	86	82	80		85	82	80		84
9	91	85	81	78	90	84	80	78	83	80	78		83	80	77		82
10	89	82	78	76	88	82	78	76	81	78	76		81	78	75		80

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1594986	1594986	1594986
5°	1331718	1331718	1338030
10°	834285	832406	840836
15°	476100	478808	479600
20°	269546	268721	267577
25°	101182	130834	103384
30°	20762	43805	20929
35°	8255	14251	8066
40°	4199	6209	4009
45°	2836	3261	2384
50°	1658	1658	1191
55°	794	1064	524
60°	601	601	310
65°	367	367	367
70°	453	453	453
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1137.7	36.4
10°-20°	1353.1	43.3
20°-30°	539.5	17.3
30°-40°	68.0	2.2
40°-50°	16.8	0.5
50°-60°	4.9	0.2
60°-70°	1.7	0.1
70°-80°	0.7	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°	3030.2	97.1
0°-40°	3098.2	99.2
0°-60°	3119.9	99.9
0°-90°	3122.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3122.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16464	16464	16464	16464	16464	
5°	13694	13820	13694	13707	13759	1135
15°	4747	4776	4774	4774	4782	1349
25°	947	1162	1224	1115	967	487
35°	70	84	120	81	68	51
45°	21	21	24	19	17	16
55°	5	5	6	5	3	5
65°	2	2	2	2	2	2
75°	0	2	0	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	

Cooper Lighting Solutions Photometric Lab

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Peachtree City, GA 30269



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	16464.3	16464.3	16464.3	16464.3	16464.3
2.5°	15655.7	15739.6	15578.0	15593.7	15614.4
5°	13694.4	13819.6	13694.4	13707.0	13759.3
7.5°	11019.5	11128.9	11057.6	11089.2	11032.2
10°	8481.1	8520.8	8462.0	8490.6	8547.7
12.5°	6377.1	6421.4	6378.7	6380.3	6405.6
15°	4747.1	4775.6	4774.1	4774.1	4782.0
17.5°	3545.3	3583.3	3542.2	3545.3	3554.7
20°	2614.6	2640.0	2606.6	2601.9	2595.5
22.5°	1783.8	1837.6	1858.3	1831.4	1745.6
25°	946.6	1162.2	1224.0	1114.6	967.2
27.5°	380.5	578.7	715.1	566.0	413.8
30°	185.6	252.1	391.6	258.5	187.1
32.5°	109.4	136.4	214.0	134.8	107.9
35°	69.8	84.1	120.5	80.8	68.2
37.5°	46.0	55.5	74.5	53.9	44.4
40°	33.2	38.1	49.1	36.5	31.7
42.5°	25.3	26.9	33.2	26.9	23.8
45°	20.7	20.7	23.8	19.1	17.4
47.5°	15.9	15.9	15.9	14.3	11.0
50°	11.0	11.0	11.0	9.5	7.9
52.5°	7.9	7.9	7.9	6.3	4.7
55°	4.7	4.7	6.3	4.7	3.1
57.5°	4.7	3.1	4.7	3.1	3.1
60°	3.1	3.1	3.1	1.6	1.6
62.5°	1.6	1.6	1.6	1.6	1.6
65°	1.6	1.6	1.6	1.6	1.6
67.5°	1.6	1.6	1.6	1.6	1.6
70°	1.6	1.6	1.6	1.6	1.6
72.5°	1.6	1.6	1.6	1.6	0.0
75°	0.0	1.6	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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