

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: P1219542

Luminaire Tested: **LDSQA4A25950D010TE LAR15SP 4LSQA1H-LSF-20**

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: P1219542
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: LDSQA4A25950D010TE 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 / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

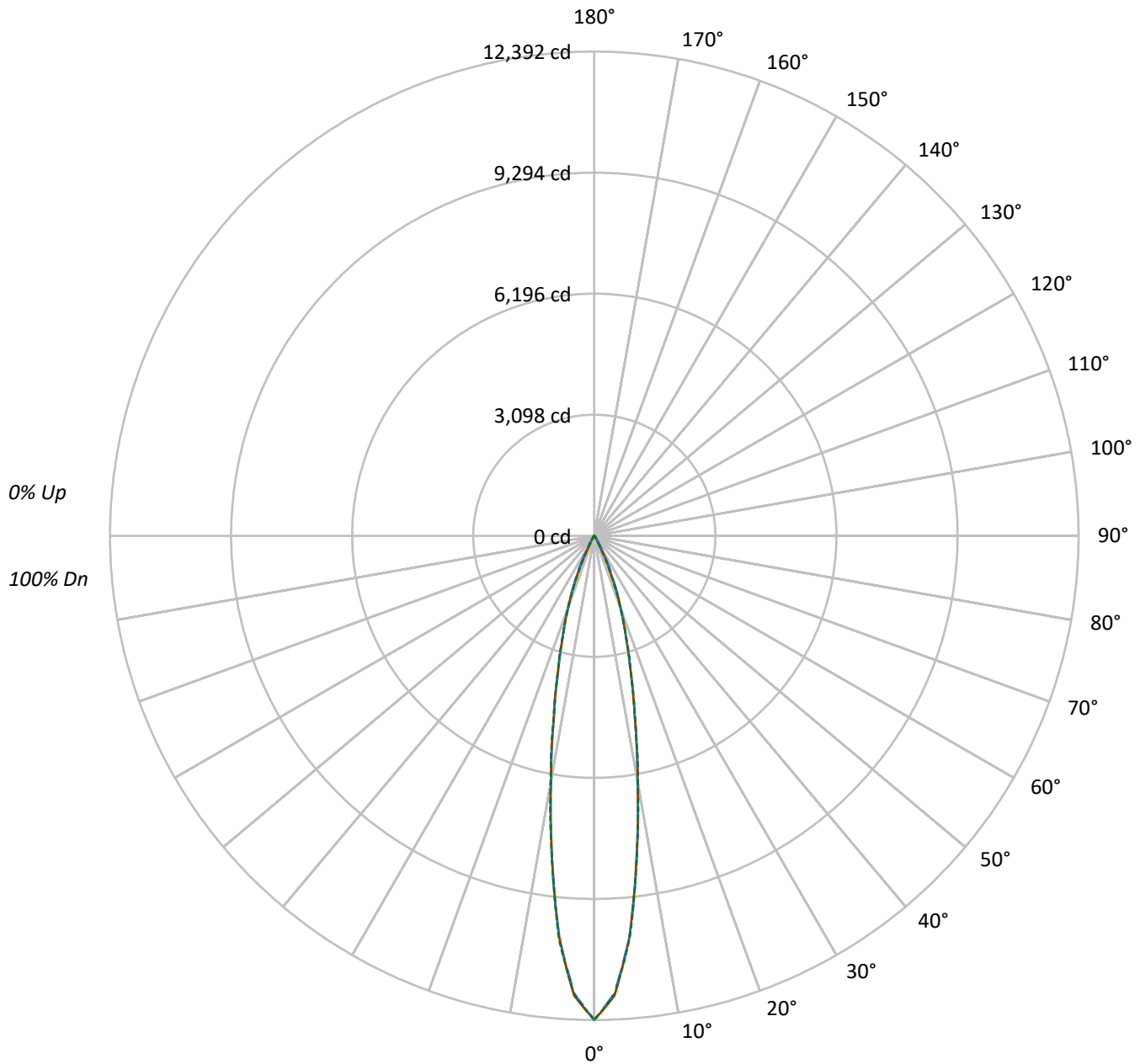
Lumens per Lamp: N/A
Luminaire Lumens: 2349.9 lumens
Efficiency: N/A
Efficacy: 76.0 lumens/watt
Spacing Criteria (0/90/45): 0.35 / 0.35 / 0.39
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 30.9
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			0
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			100
1	115	113	111	109	113	111	109	108		107	106	104			103	102	101			97
2	111	108	105	102	109	106	104	101		103	101	99			100	99	97			94
3	108	103	100	97	106	102	99	96		100	97	95			97	95	93			91
4	105	99	96	93	103	98	95	92		96	93	91			95	92	90			88
5	102	96	92	89	100	95	91	89		93	90	88			92	89	87			85
6	99	93	89	86	98	92	88	85		91	87	85			89	87	84			83
7	96	90	86	83	95	89	85	83		88	85	82			87	84	82			80
8	94	87	83	80	93	87	83	80		86	82	80			85	82	80			78
9	91	85	81	78	90	84	80	78		83	80	78			83	80	77			76
10	89	82	78	76	88	82	78	76		81	78	76			81	78	75			74

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1200471	1200471	1200471
5°	1002319	1002319	1007074
10°	627925	626518	632853
15°	358336	360372	360974
20°	202876	202258	201392
25°	76149	98467	77816
30°	15627	32966	15750
35°	6209	10726	6067
40°	3162	4666	3022
45°	2124	2452	1808
50°	1251	1251	889
55°	591	811	405
60°	465	465	213
65°	252	252	252
70°	312	312	312
75°	0	0	0
80°	0	0	0
85°	0	0	0

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	856.3	36.4
10°-20°	1018.4	43.3
20°-30°	406.0	17.3
30°-40°	51.2	2.2
40°-50°	12.6	0.5
50°-60°	3.7	0.2
60°-70°	1.2	0.1
70°-80°	0.5	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°	2280.7	97.1
0°-40°	2331.9	99.2
0°-60°	2348.2	99.9
0°-90°	2349.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2349.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12392	12392	12392	12392	12392	
5°	10307	10401	10307	10317	10356	854
15°	3573	3594	3593	3593	3599	1015
25°	712	875	921	839	728	367
35°	52	63	91	61	51	38
45°	16	16	18	14	13	12
55°	4	4	5	4	2	4
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°	12391.9	12391.9	12391.9	12391.9	12391.9
2.5°	11783.3	11846.5	11724.9	11736.7	11752.2
5°	10307.1	10401.4	10307.1	10316.6	10356.0
7.5°	8293.8	8376.2	8322.5	8346.4	8303.4
10°	6383.3	6413.2	6369.0	6390.4	6433.4
12.5°	4799.8	4833.1	4801.0	4802.1	4821.2
15°	3572.9	3594.4	3593.2	3593.2	3599.2
17.5°	2668.4	2696.9	2666.0	2668.4	2675.5
20°	1967.9	1987.0	1961.9	1958.3	1953.5
22.5°	1342.5	1383.1	1398.6	1378.3	1313.8
25°	712.4	874.7	921.2	839.0	728.0
27.5°	286.4	435.6	538.2	426.1	311.4
30°	139.7	189.8	294.7	194.5	140.8
32.5°	82.4	102.6	161.1	101.5	81.2
35°	52.5	63.2	90.7	60.8	51.3
37.5°	34.6	41.7	56.1	40.6	33.5
40°	25.0	28.7	36.9	27.6	23.9
42.5°	19.1	20.3	25.0	20.3	17.9
45°	15.5	15.5	17.9	14.4	13.2
47.5°	12.0	12.0	12.0	10.8	8.3
50°	8.3	8.3	8.3	7.2	5.9
52.5°	5.9	5.9	5.9	4.8	3.5
55°	3.5	3.5	4.8	3.5	2.4
57.5°	3.5	2.4	3.5	2.4	2.4
60°	2.4	2.4	2.4	1.1	1.1
62.5°	1.1	1.1	1.1	1.1	1.1
65°	1.1	1.1	1.1	1.1	1.1
67.5°	1.1	1.1	1.1	1.1	1.1
70°	1.1	1.1	1.1	1.1	1.1
72.5°	1.1	1.1	1.1	1.1	0.0
75°	0.0	1.1	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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