

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: P1212203

Luminaire Tested: **LDSQA4A20935D010TE 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: P1212203
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: LDSQA4A20935D010TE 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 / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

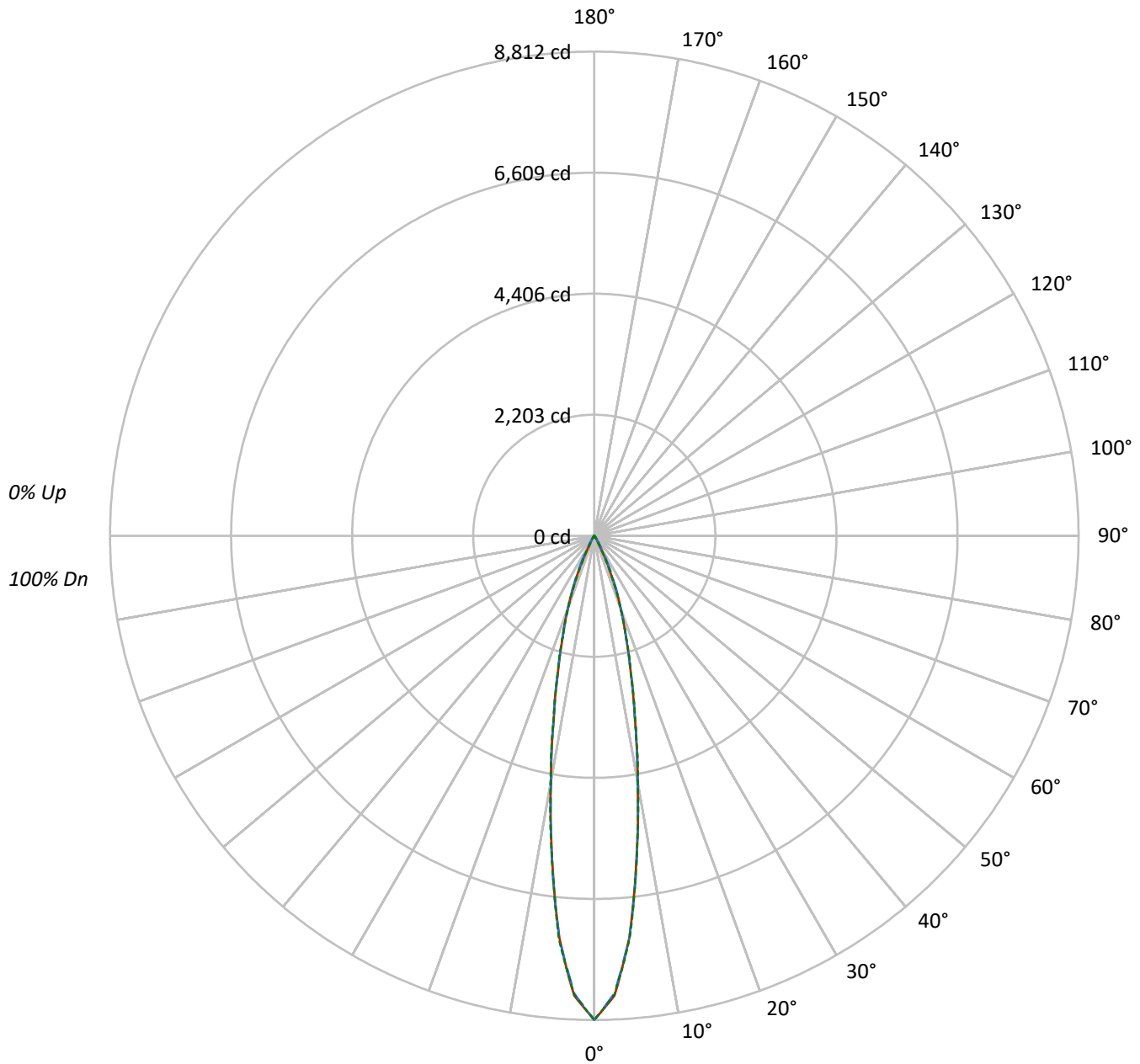
Lumens per Lamp: N/A
Luminaire Lumens: 1671.0 lumens
Efficiency: N/A
Efficacy: 58.0 lumens/watt
Spacing Criteria (0/90/45): 0.35 / 0.35 / 0.39
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 28.8
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		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	115	113	111	109	113	111	109	108		107	106	104		103	102	101		100	99	98
2	111	108	105	102	109	106	104	101		103	101	99		100	99	97		98	96	95
3	108	103	100	97	106	102	99	96		100	97	95		97	95	93		95	93	92
4	105	99	96	93	103	98	95	92		96	93	91		95	92	90		93	91	89
5	102	96	92	89	100	95	91	89		93	90	88		92	89	87		91	88	86
6	99	93	89	86	98	92	88	85		91	87	85		89	87	84		88	86	84
7	96	90	86	83	95	89	85	83		88	85	82		87	84	82		86	83	81
8	94	87	83	80	93	87	83	80		86	82	80		85	82	80		84	81	79
9	91	85	81	78	90	84	80	78		83	80	78		83	80	77		82	79	77
10	89	82	78	76	88	82	78	76		81	78	76		81	78	75		80	77	75

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	853618	853618	853618
5°	712722	712722	716106
10°	446501	445498	450003
15°	254804	256248	256669
20°	144268	143814	143206
25°	54151	70024	55326
30°	11119	23446	11209
35°	4423	7628	4317
40°	2251	3326	2150
45°	1507	1740	1288
50°	889	889	633
55°	422	574	287
60°	329	329	155
65°	183	183	183
70°	227	227	227
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	608.9	36.4
10°-20°	724.2	43.3
20°-30°	288.7	17.3
30°-40°	36.4	2.2
40°-50°	9.0	0.5
50°-60°	2.6	0.2
60°-70°	0.9	0.1
70°-80°	0.3	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°	1621.7	97.1
0°-40°	1658.2	99.2
0°-60°	1669.8	99.9
0°-90°	1671.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1671.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8812	8812	8812	8812	8812	
5°	7329	7396	7329	7336	7364	607
15°	2541	2556	2555	2555	2559	722
25°	507	622	655	597	518	261
35°	37	45	64	43	36	27
45°	11	11	13	10	9	9
55°	2	2	3	2	2	3
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°	8811.5	8811.5	8811.5	8811.5	8811.5
2.5°	8378.7	8423.7	8337.1	8345.7	8356.7
5°	7329.1	7396.2	7329.1	7335.8	7363.9
7.5°	5897.5	5956.1	5917.9	5934.9	5904.3
10°	4539.0	4560.2	4528.8	4544.1	4574.6
12.5°	3413.0	3436.6	3413.8	3414.6	3428.2
15°	2540.6	2555.9	2555.0	2555.0	2559.2
17.5°	1897.4	1917.8	1895.7	1897.4	1902.5
20°	1399.4	1412.8	1395.0	1392.5	1389.1
22.5°	954.6	983.5	994.6	980.1	934.2
25°	506.6	622.0	655.1	596.6	517.6
27.5°	203.6	309.7	382.7	303.0	221.5
30°	99.4	134.9	209.6	138.3	100.2
32.5°	58.6	73.0	114.6	72.2	57.8
35°	37.4	45.0	64.5	43.3	36.5
37.5°	24.6	29.8	39.8	28.8	23.7
40°	17.8	20.4	26.3	19.5	17.0
42.5°	13.6	14.5	17.8	14.5	12.7
45°	11.0	11.0	12.7	10.2	9.4
47.5°	8.6	8.6	8.6	7.6	5.9
50°	5.9	5.9	5.9	5.1	4.2
52.5°	4.2	4.2	4.2	3.4	2.5
55°	2.5	2.5	3.4	2.5	1.7
57.5°	2.5	1.7	2.5	1.7	1.7
60°	1.7	1.7	1.7	0.8	0.8
62.5°	0.8	0.8	0.8	0.8	0.8
65°	0.8	0.8	0.8	0.8	0.8
67.5°	0.8	0.8	0.8	0.8	0.8
70°	0.8	0.8	0.8	0.8	0.8
72.5°	0.8	0.8	0.8	0.8	0.0
75°	0.0	0.8	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

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— 0°-180° - - 45°-225° - - - 90°-270°

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