

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: P1219444

Luminaire Tested: **LDSQA4A10950D010TE 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: P1219444
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: LDSQA4A10950D010TE 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

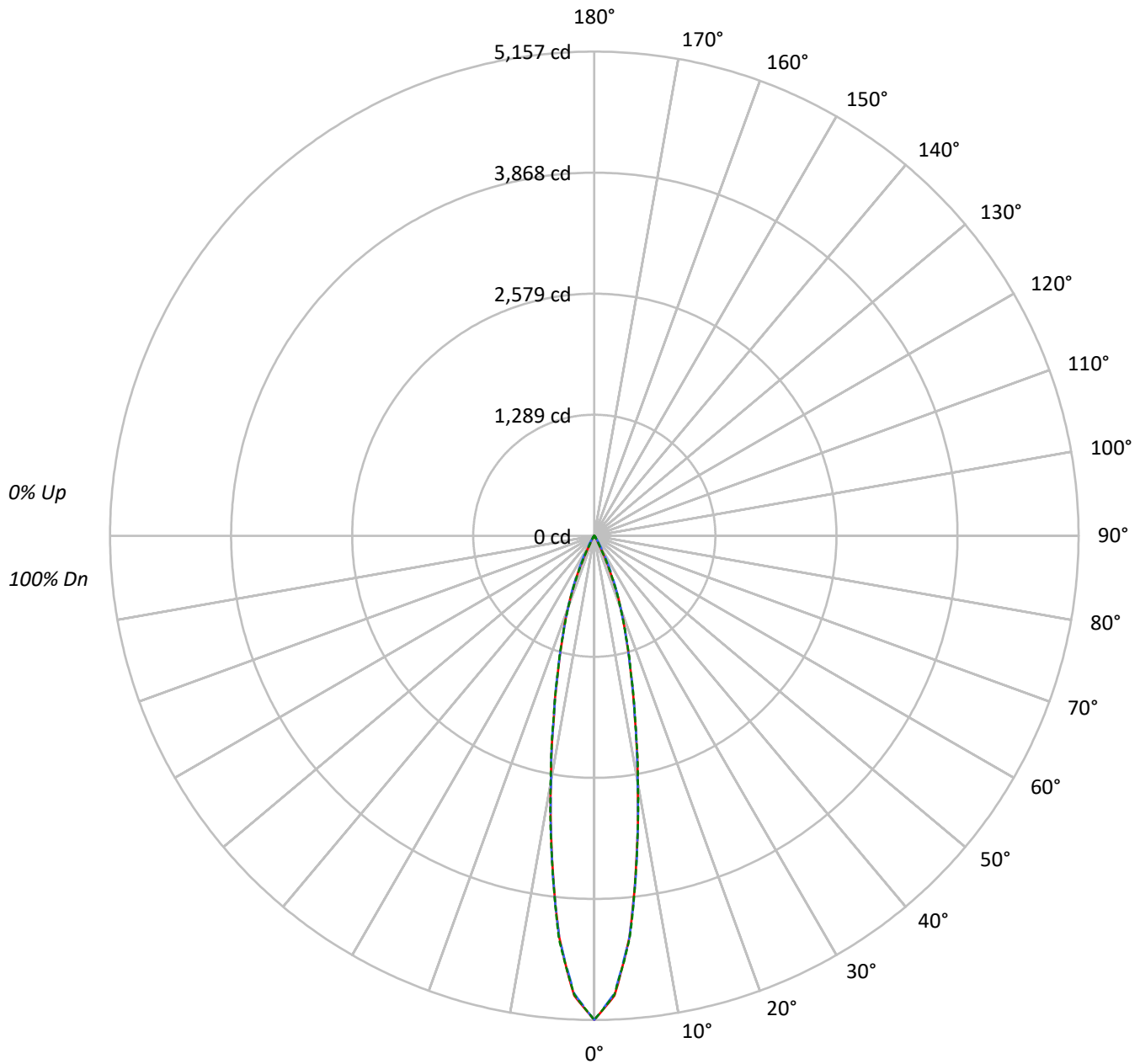
Lumens per Lamp: N/A
Luminaire Lumens: 977.9 lumens
Efficiency: N/A
Efficacy: 78.9 lumens/watt
Spacing Criteria (0/90/45): 0.35 / 0.35 / 0.39
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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



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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°	499548	499548	499548
5°	417105	417105	419070
10°	261300	260710	263356
15°	149115	149958	150209
20°	84423	84165	83814
25°	31693	40971	32388
30°	6499	13714	6555
35°	2578	4470	2519
40°	1315	1948	1252
45°	877	1028	754
50°	512	512	377
55°	253	338	169
60°	194	194	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°	356.3	36.4
10°-20°	423.8	43.3
20°-30°	169.0	17.3
30°-40°	21.3	2.2
40°-50°	5.2	0.5
50°-60°	1.6	0.2
60°-70°	0.5	0.1
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°	949.1	97.1
0°-40°	970.4	99.2
0°-60°	977.2	99.9
0°-90°	977.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	977.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5157	5157	5157	5157	5157	
5°	4289	4328	4289	4293	4309	355
15°	1487	1496	1495	1495	1498	423
25°	296	364	383	349	303	153
35°	22	26	38	25	21	16
45°	6	6	8	6	6	5
55°	2	2	2	2	1	2
65°	0	0	0	0	0	1
75°	0	0	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°	5156.6	5156.6	5156.6	5156.6	5156.6
2.5°	4903.4	4929.7	4879.1	4884.0	4890.5
5°	4289.2	4328.4	4289.2	4293.1	4309.4
7.5°	3451.3	3485.7	3463.3	3473.2	3455.3
10°	2656.3	2668.7	2650.3	2659.3	2677.2
12.5°	1997.3	2011.3	1997.8	1998.4	2006.3
15°	1486.8	1495.7	1495.2	1495.2	1497.7
17.5°	1110.4	1122.3	1109.4	1110.4	1113.4
20°	818.9	826.8	816.4	814.9	813.0
22.5°	558.7	575.5	582.0	573.6	546.7
25°	296.5	364.0	383.3	349.1	303.0
27.5°	119.2	181.3	224.0	177.3	129.6
30°	58.1	78.9	122.6	80.9	58.6
32.5°	34.2	42.7	67.1	42.2	33.8
35°	21.8	26.3	37.8	25.4	21.3
37.5°	14.4	17.4	23.3	16.8	13.9
40°	10.4	12.0	15.4	11.4	9.9
42.5°	7.9	8.4	10.4	8.4	7.5
45°	6.4	6.4	7.5	5.9	5.5
47.5°	5.0	5.0	5.0	4.5	3.4
50°	3.4	3.4	3.4	3.0	2.5
52.5°	2.5	2.5	2.5	2.0	1.5
55°	1.5	1.5	2.0	1.5	1.0
57.5°	1.5	1.0	1.5	1.0	1.0
60°	1.0	1.0	1.0	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	0.5
70°	0.5	0.5	0.5	0.5	0.5
72.5°	0.5	0.5	0.5	0.5	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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