

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: P1212317

Luminaire Tested: **LDSQA4A30935D010TE LAR15SP 4LSQA1H**

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: P1212317
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: LDSQA4A30935D010TE LAR15SP 4LSQA1H
Description: PORTFOLIO 4" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,
SELF-FLANGED, 15° SPOT
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

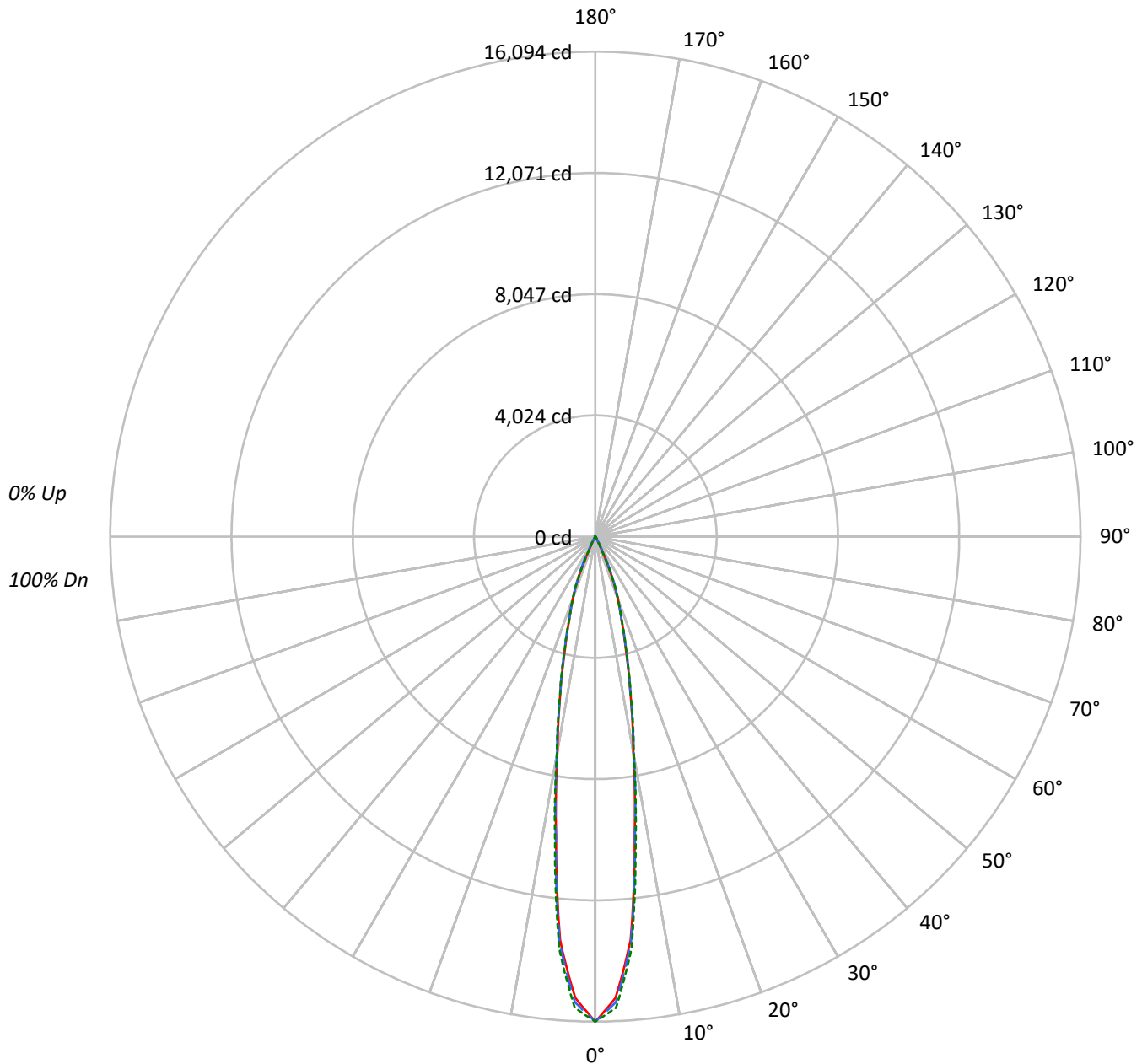
Lumens per Lamp: N/A
Luminaire Lumens: 2642.0 lumens
Efficiency: N/A
Efficacy: 66.4 lumens/watt
Spacing Criteria (0/90/45): 0.32 / 0.32 / 0.36
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 39.8
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	110	113	111	110	108		107	106	105		104	103	102		100	99	99
2	112	108	105	103	110	107	104	102		104	102	100		101	99	98		98	97	96
3	108	104	101	98	107	103	100	97		100	98	96		98	96	94		96	94	93
4	105	100	97	94	104	99	96	93		97	95	92		96	93	91		94	92	90
5	103	97	93	90	101	96	93	90		95	92	89		93	91	89		92	90	88
6	100	94	90	87	99	93	90	87		92	89	87		91	88	86		90	87	86
7	97	91	88	85	96	91	87	85		90	87	84		89	86	84		88	85	83
8	95	89	85	82	94	88	85	82		88	84	82		87	84	82		86	83	81
9	93	87	83	80	92	86	83	80		85	82	80		85	82	80		84	81	79
10	91	84	81	78	90	84	81	78		83	80	78		83	80	78		82	80	78

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1559065	1559065	1559065
5°	1306756	1317812	1336970
10°	710929	721494	724229
15°	393138	399456	400991
20°	222618	223278	224577
25°	60746	95164	59666
30°	9743	14822	9464
35°	3288	5523	3146
40°	1442	2226	1442
45°	863	1041	699
50°	573	573	377
55°	422	422	203
60°	233	233	233
65°	275	275	275
70°	340	340	340
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1072.7	40.6
10°-20°	1134.4	42.9
20°-30°	399.1	15.1
30°-40°	26.9	1.0
40°-50°	5.6	0.2
50°-60°	1.8	0.1
60°-70°	1.2	0.0
70°-80°	0.4	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°	2606.2	98.6
0°-40°	2633.1	99.7
0°-60°	2640.5	99.9
0°-90°	2642.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2642.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16094	16094	16094	16094	16094	
5°	13438	13640	13551	13577	13748	1060
15°	3920	3986	3983	3974	3998	1123
25°	568	862	890	849	558	352
35°	28	34	47	34	27	21
45°	6	6	8	6	5	5
55°	2	2	2	1	1	2
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	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	16093.5	16093.5	16093.5	16093.5	16093.5
2.5°	15320.7	15521.5	15470.9	15438.1	15648.9
5°	13437.7	13639.8	13551.4	13576.6	13748.4
7.5°	9990.2	10160.7	10069.8	10107.6	10239.0
10°	7227.1	7396.4	7334.5	7354.7	7362.3
12.5°	5388.5	5463.0	5413.7	5427.6	5452.9
15°	3919.9	3985.5	3982.9	3974.1	3998.2
17.5°	2876.8	2908.3	2876.8	2875.5	2891.9
20°	2159.4	2203.6	2165.8	2170.8	2178.4
22.5°	1451.0	1539.4	1524.3	1505.3	1485.0
25°	568.3	862.5	890.3	848.6	558.2
27.5°	162.9	268.9	382.6	264.0	157.9
30°	87.1	103.5	132.5	101.0	84.6
32.5°	46.7	59.3	75.8	58.1	45.4
35°	27.8	34.1	46.7	34.1	26.6
37.5°	17.6	21.5	29.0	21.5	17.6
40°	11.4	13.9	17.6	13.9	11.4
42.5°	8.8	10.1	11.4	8.8	7.6
45°	6.3	6.3	7.6	6.3	5.1
47.5°	5.1	5.1	5.1	3.8	3.8
50°	3.8	3.8	3.8	2.5	2.5
52.5°	2.5	2.5	2.5	2.5	2.5
55°	2.5	2.5	2.5	1.2	1.2
57.5°	2.5	1.2	1.2	1.2	1.2
60°	1.2	1.2	1.2	1.2	1.2
62.5°	1.2	1.2	1.2	1.2	1.2
65°	1.2	1.2	1.2	1.2	1.2
67.5°	1.2	1.2	1.2	1.2	0.0
70°	1.2	1.2	1.2	1.2	1.2
72.5°	1.2	1.2	1.2	0.0	0.0
75°	0.0	1.2	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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