

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: P1219488

Luminaire Tested: **LDSQA4A15935D010TE 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: P1219488
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: LDSQA4A15935D010TE 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

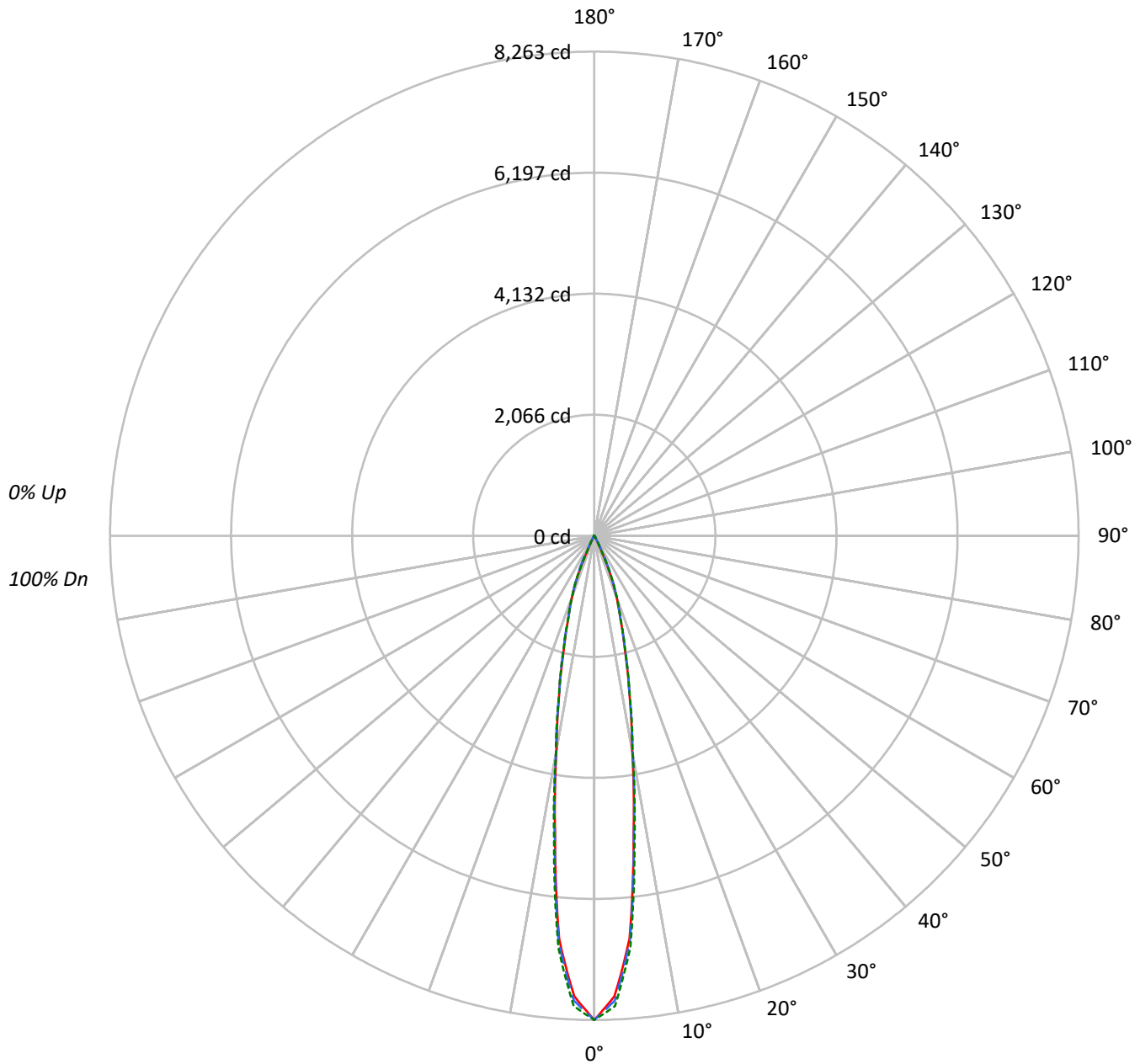
Lumens per Lamp: N/A
Luminaire Lumens: 1356.7 lumens
Efficiency: N/A
Efficacy: 66.5 lumens/watt
Spacing Criteria (0/90/45): 0.32 / 0.32 / 0.36
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 20.4
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	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°	800462	800462	800462
5°	670926	676595	686436
10°	365011	370441	371838
15°	201849	205089	205881
20°	114299	114639	115299
25°	31191	48860	30635
30°	5000	7618	4866
35°	1691	2838	1620
40°	733	1151	733
45°	452	534	356
50°	301	301	196
55°	220	220	118
60°	136	136	136
65°	160	160	160
70°	198	198	198
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	550.8	40.6
10°-20°	582.4	42.9
20°-30°	204.9	15.1
30°-40°	13.8	1.0
40°-50°	2.9	0.2
50°-60°	1.0	0.1
60°-70°	0.7	0.0
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°	1338.1	98.6
0°-40°	1351.9	99.6
0°-60°	1355.7	99.9
0°-90°	1356.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1356.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8263	8263	8263	8263	8263	
5°	6899	7003	6958	6971	7059	544
15°	2013	2046	2045	2040	2053	577
25°	292	443	457	436	287	181
35°	14	18	24	18	14	11
45°	3	3	4	3	3	3
55°	1	1	1	1	1	1
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°	8262.8	8262.8	8262.8	8262.8	8262.8
2.5°	7866.0	7969.1	7943.2	7926.3	8034.6
5°	6899.3	7003.1	6957.6	6970.6	7058.8
7.5°	5129.3	5216.8	5170.1	5189.6	5257.0
10°	3710.6	3797.5	3765.8	3776.2	3780.0
12.5°	2766.6	2804.9	2779.5	2786.7	2799.6
15°	2012.6	2046.2	2044.9	2040.4	2052.8
17.5°	1477.0	1493.2	1477.0	1476.4	1484.8
20°	1108.7	1131.4	1112.0	1114.5	1118.4
22.5°	745.0	790.3	782.6	772.9	762.5
25°	291.8	442.8	457.1	435.7	286.6
27.5°	83.7	138.1	196.4	135.5	81.1
30°	44.7	53.2	68.1	51.9	43.5
32.5°	24.0	30.5	38.9	29.8	23.4
35°	14.3	17.5	24.0	17.5	13.7
37.5°	9.1	11.0	14.9	11.0	9.1
40°	5.8	7.1	9.1	7.1	5.8
42.5°	4.6	5.1	5.8	4.6	3.9
45°	3.3	3.3	3.9	3.3	2.6
47.5°	2.6	2.6	2.6	2.0	2.0
50°	2.0	2.0	2.0	1.3	1.3
52.5°	1.3	1.3	1.3	1.3	1.3
55°	1.3	1.3	1.3	0.7	0.7
57.5°	1.3	0.7	0.7	0.7	0.7
60°	0.7	0.7	0.7	0.7	0.7
62.5°	0.7	0.7	0.7	0.7	0.7
65°	0.7	0.7	0.7	0.7	0.7
67.5°	0.7	0.7	0.7	0.7	0.0
70°	0.7	0.7	0.7	0.7	0.7
72.5°	0.7	0.7	0.7	0.0	0.0
75°	0.0	0.7	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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