

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: P1219458

Luminaire Tested: **LDSQA4A15927D010TE 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: P1219458
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: LDSQA4A15927D010TE 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 / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

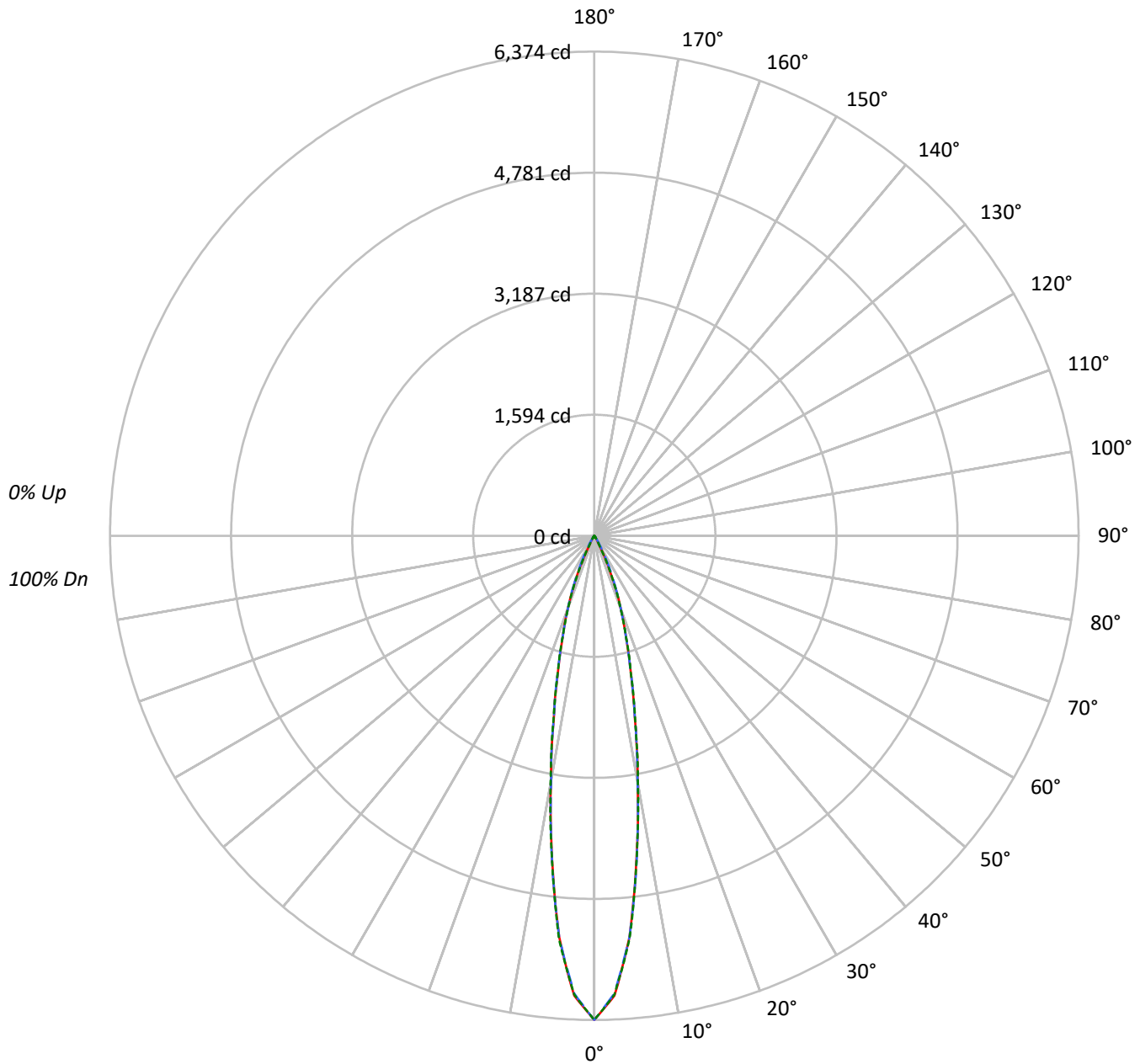
Lumens per Lamp: N/A
Luminaire Lumens: 1208.7 lumens
Efficiency: N/A
Efficacy: 59.3 lumens/watt
Spacing Criteria (0/90/45): 0.35 / 0.35 / 0.39
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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					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°	617455	617455	617455
5°	515537	515537	517988
10°	322968	322240	325506
15°	184308	185351	185662
20°	104350	104031	103588
25°	39165	50645	40020
30°	8032	16958	8110
35°	3193	5511	3122
40°	1631	2403	1555
45°	1096	1260	918
50°	648	648	467
55°	321	422	203
60°	233	233	116
65°	138	138	138
70°	170	170	170
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	440.4	36.4
10°-20°	523.8	43.3
20°-30°	208.8	17.3
30°-40°	26.4	2.2
40°-50°	6.5	0.5
50°-60°	1.9	0.2
60°-70°	0.6	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°	1173.1	97.1
0°-40°	1199.4	99.2
0°-60°	1207.8	99.9
0°-90°	1208.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1208.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6374	6374	6374	6374	6374	
5°	5301	5350	5301	5306	5327	439
15°	1838	1849	1848	1848	1851	522
25°	366	450	474	432	374	189
35°	27	33	47	31	26	20
45°	8	8	9	7	7	6
55°	2	2	2	2	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	0

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6373.7	6373.7	6373.7	6373.7	6373.7
2.5°	6060.7	6093.2	6030.6	6036.7	6044.7
5°	5301.4	5349.9	5301.4	5306.3	5326.6
7.5°	4265.9	4308.3	4280.7	4292.9	4270.9
10°	3283.2	3298.6	3275.8	3286.9	3309.0
12.5°	2468.7	2485.9	2469.4	2470.0	2479.8
15°	1837.7	1848.7	1848.1	1848.1	1851.2
17.5°	1372.4	1387.2	1371.2	1372.4	1376.1
20°	1012.2	1022.0	1009.1	1007.2	1004.8
22.5°	690.5	711.4	719.3	708.9	675.8
25°	366.4	450.0	473.8	431.5	374.4
27.5°	147.3	224.0	276.8	219.1	160.2
30°	71.8	97.6	151.6	100.1	72.5
32.5°	42.4	52.8	82.9	52.2	41.8
35°	27.0	32.6	46.6	31.3	26.4
37.5°	17.8	21.5	28.8	20.9	17.2
40°	12.9	14.8	19.0	14.2	12.3
42.5°	9.8	10.4	12.9	10.4	9.2
45°	8.0	8.0	9.2	7.3	6.7
47.5°	6.1	6.1	6.1	5.5	4.3
50°	4.3	4.3	4.3	3.7	3.1
52.5°	3.1	3.1	3.1	2.5	1.9
55°	1.9	1.9	2.5	1.9	1.2
57.5°	1.9	1.2	1.9	1.2	1.2
60°	1.2	1.2	1.2	0.6	0.6
62.5°	0.6	0.6	0.6	0.6	0.6
65°	0.6	0.6	0.6	0.6	0.6
67.5°	0.6	0.6	0.6	0.6	0.6
70°	0.6	0.6	0.6	0.6	0.6
72.5°	0.6	0.6	0.6	0.6	0.0
75°	0.0	0.6	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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