

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: P26618

Luminaire Tested: **LDA6A20835D010TE LARL15SP 6LFC1 H DIF-20**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P26618
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA6A20835D010TE LARL15SP 6LFC1 H DIF-20
Description: PORTFOLIO 6" FLAT CONE HAZE 23Z TRIM, OVERALL DIFFUSE LENS,
15 DEG SPOT OPTIC, AT 0 DEG TILT.
Light Source: [1] CITIZEN 3500K LED
CLU034-1208B8-353M1A2
Ballast/Driver: [1] ERP ELECTRONIC DRIVER
ELM030W-0700-42, 700mA

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1345.1 lumens
Efficiency: N/A
Efficacy: 46.7 lumens/watt
Spacing Criteria (0/90/45): 0.49 / 0.49 / 0.53
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

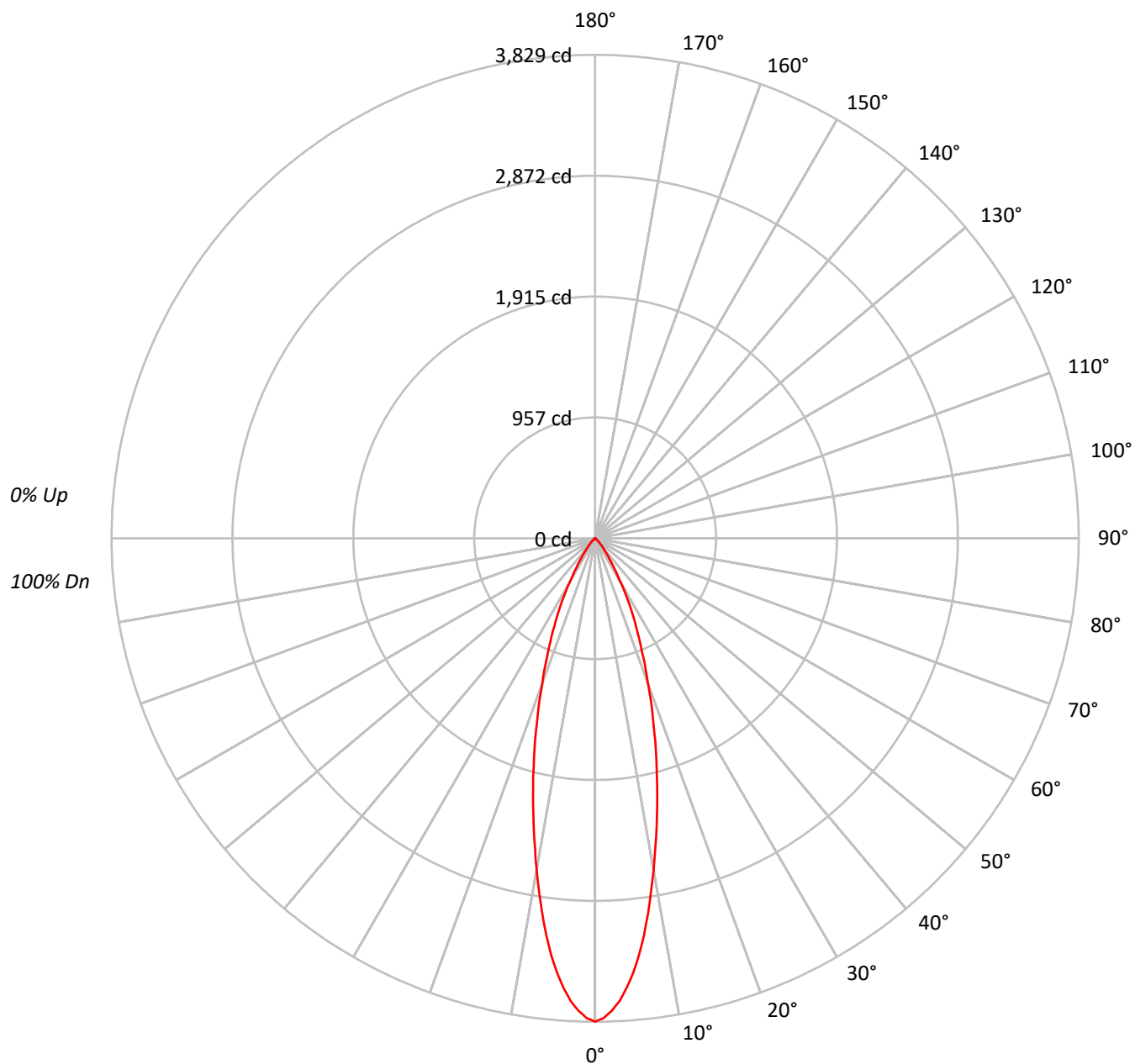
Input Watts (W): 28.8
Input Voltage (V): 119.97
Input Current (Ain): 0.24240
Voltage Rise (V): NR
Power Factor: 0.9932
Total Harmonic Distortion (THDi): 6.67%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: 24 HR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	114	112	110	108		112	110	108	106		106	104	103		102	101	100		99	98	97
2	110	106	102	99		108	104	101	98		101	98	96		98	96	94		95	94	92
3	106	100	96	93		104	99	95	92		96	93	90		94	91	89		92	90	88
4	101	95	91	87		100	94	90	86		92	88	85		90	87	85		88	86	84
5	97	91	86	82		96	90	85	82		88	84	81		86	83	80		85	82	80
6	94	86	82	78		92	86	81	78		84	80	77		83	79	77		82	79	76
7	90	83	78	74		89	82	77	74		81	77	74		80	76	73		79	75	73
8	87	79	74	71		86	79	74	71		78	73	70		77	73	70		76	72	70
9	84	76	71	68		83	76	71	68		75	71	68		74	70	67		73	70	67
10	81	73	68	65		80	73	68	65		72	68	65		71	67	65		71	67	65

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	209906
5°	190127
10°	148405
15°	106868
20°	71523
25°	45910
30°	25763
35°	12916
40°	6727
45°	3101
50°	938
55°	478
60°	329
65°	259
70°	160
75°	212
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	303.8	22.6
10°-20°	518.4	38.5
20°-30°	351.1	26.1
30°-40°	130.8	9.7
40°-50°	33.5	2.5
50°-60°	5.1	0.4
60°-70°	1.7	0.1
70°-80°	0.7	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°	1173.3	87.2
0°-40°	1304.1	97.0
0°-60°	1342.7	99.8
0°-90°	1345.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1345.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3829	
5°	3455	304
15°	1883	518
25°	759	351
35°	193	131
45°	40	33
55°	5	5
65°	2	2
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3829
1°	3801
2°	3746
3°	3671
4°	3572
5°	3455
6°	3320
7°	3168
8°	3004
9°	2834
10°	2666
11°	2499
12°	2338
13°	2182
14°	2030
15°	1883
17.5°	1534
20°	1226
22.5°	969
25°	759
27.5°	583
30°	407
32.5°	277
35°	193
37.5°	136
40°	94
42.5°	63
45°	40
47.5°	22
50°	11
52.5°	7
55°	5
57.5°	4
60°	3
62.5°	2
65°	2
67.5°	1
70°	1
72.5°	1
75°	1
77.5°	0
80°	0
82.5°	0



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CANDELA DISTRIBUTION (continued):

90° | 0°
| 0



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— 0°-180°







85°		0
87.5°		0



(END OF REPORT)