

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: P179576

Luminaire Tested: **LDA6A45927D010TE LARH20SP 6LAL1LI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P179576  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26662)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDA6A45927D010TE LARH20SP 6LAL1LI  
Description: PORTFOLIO 6" Lensed Adjustable, Self-flanged, 20° Spot  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2994.3 lumens  
Efficiency: N/A  
Efficacy: 56.5 lumens/watt  
Spacing Criteria (0/90/45): 0.37 / 0.37 / 0.47  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

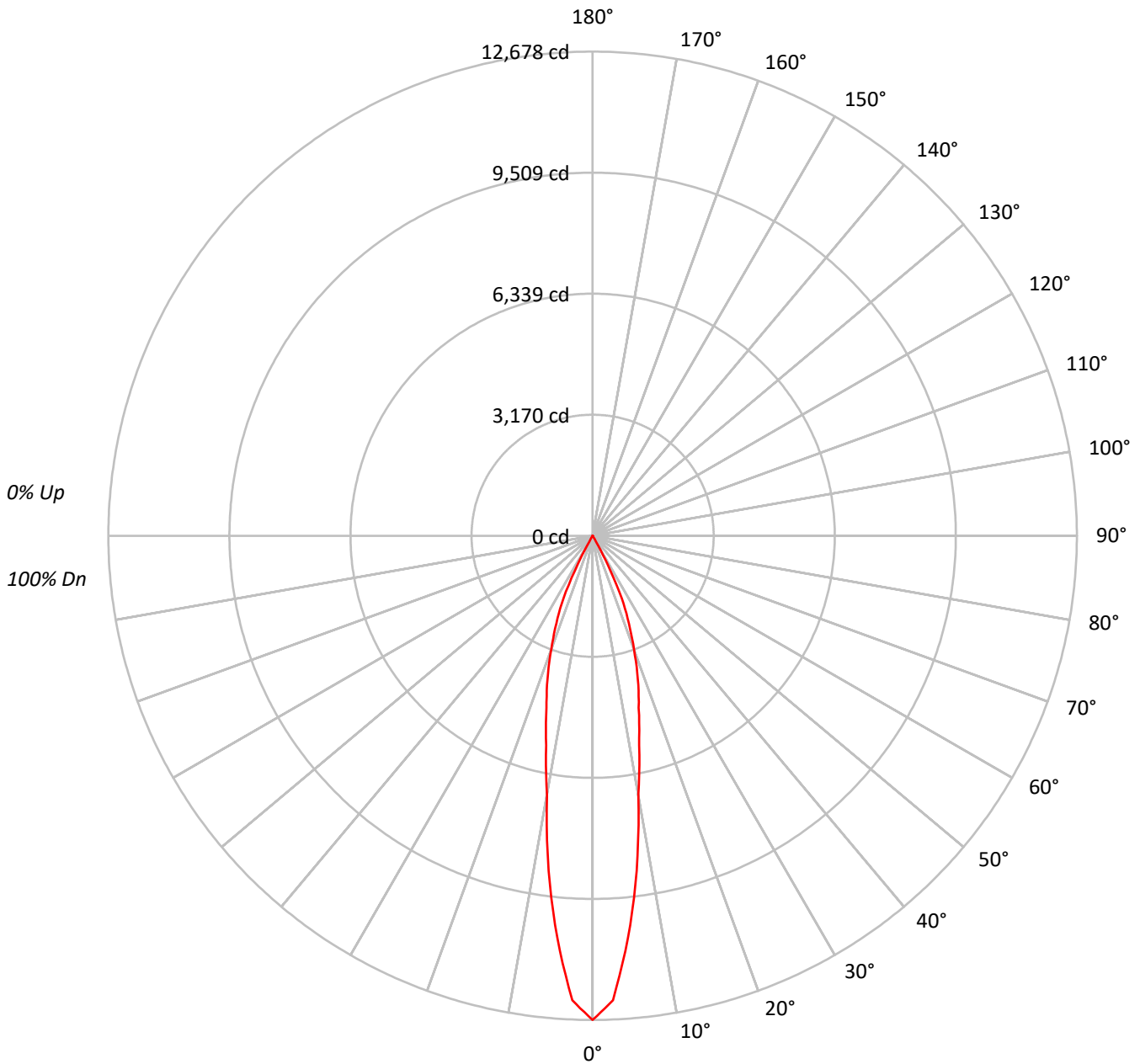
Input Watts (W): 53  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			0	
RW	70	50	30	10	70	50	30	10	50	30	10	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	102	102	102	100	100	100	100
1	115	113	111	109	113	111	109	107	107	105	104	103	102	101	100	99	98	96	96	96	96
2	111	107	104	102	109	106	103	100	102	100	98	100	98	96	97	96	94	93	93	93	93
3	107	102	99	96	105	101	98	95	99	96	94	96	94	92	94	92	91	89	89	89	89
4	104	98	94	91	102	97	93	91	95	92	90	93	91	89	92	89	88	86	86	86	86
5	101	94	90	87	99	94	90	87	92	89	86	90	88	85	89	87	85	83	83	83	83
6	97	91	87	84	96	90	86	83	89	85	83	88	85	82	87	84	82	81	81	81	81
7	94	88	83	80	93	87	83	80	86	83	80	85	82	79	84	81	79	78	78	78	78
8	92	85	81	78	91	84	80	77	83	80	77	83	79	77	82	79	77	76	76	76	76
9	89	82	78	75	88	82	78	75	81	77	75	80	77	75	79	76	74	73	73	73	73
10	87	80	75	73	86	79	75	73	79	75	72	78	75	72	77	74	72	71	71	71	71

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	694994
5°	582659
10°	383449
15°	264542
20°	184361
25°	109893
30°	11337
35°	1077
40°	658
45°	473
50°	461
55°	659
60°	669
65°	597
70°	497
75°	487
80°	474
85°	503



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	896.5	29.9
10°-20°	1312.0	43.8
20°-30°	745.9	24.9
30°-40°	21.4	0.7
40°-50°	5.1	0.2
50°-60°	5.8	0.2
60°-70°	4.5	0.2
70°-80°	2.4	0.1
80°-90°	0.6	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°	2954.4	98.7
0°-40°	2975.8	99.4
0°-60°	2986.6	99.7
0°-90°	2994.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2994.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	12678	
5°	10588	896
15°	4661	1312
25°	1817	746
35°	16	21
45°	6	5
55°	7	6
65°	5	5
75°	2	2
85°	1	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	12677.7
2.5°	12172.8
5°	10588.1
7.5°	8848.1
10°	6888.4
12.5°	5619.5
15°	4661.2
17.5°	3938.0
20°	3160.2
22.5°	2480.1
25°	1816.8
27.5°	842.3
30°	179.1
32.5°	22.3
35°	16.1
37.5°	12.3
40°	9.2
42.5°	7.7
45°	6.1
47.5°	5.4
50°	5.4
52.5°	6.1
55°	6.9
57.5°	6.9
60°	6.1
62.5°	5.4
65°	4.6
67.5°	3.8
70°	3.1
72.5°	3.1
75°	2.3
77.5°	1.5
80°	1.5
82.5°	0.8
85°	0.8
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)