

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: P179793

Luminaire Tested: **LDA6A65930D010TE LARH20SP 6LFC1H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P179793  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26681)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDA6A65930D010TE LARH20SP 6LFC1H  
Description: PORTFOLIO 6" Flat Cone, Self-flanged, 20° Spot  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4608.8 lumens  
Efficiency: N/A  
Efficacy: 59.1 lumens/watt  
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.51  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

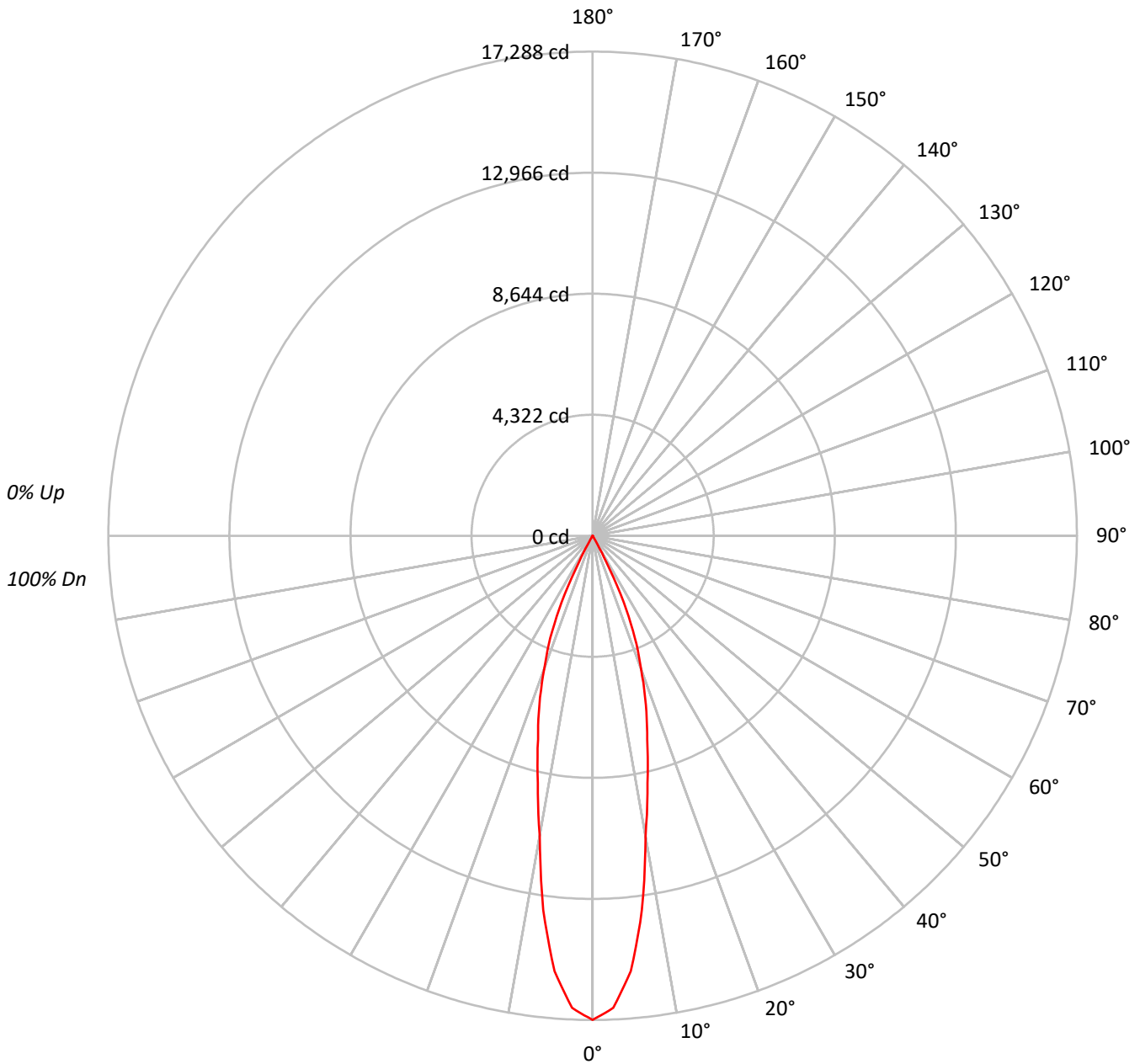
Input Watts (W): 78  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
RC	80									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															
1	115	113	111	109	113	111	109	107	107	105	104	103	102	101	100	99	98	96				96															
2	111	107	104	102	109	106	103	101	103	100	98	100	98	96	97	96	94				93																
3	107	103	99	96	106	101	98	95	99	96	94	96	94	92	94	92	91				90																
4	104	98	94	91	102	97	94	91	95	92	90	93	91	89	92	89	88				86																
5	101	94	90	87	99	94	90	87	92	89	86	91	88	85	89	87	85				83																
6	97	91	87	84	96	90	86	83	89	85	83	88	85	82	87	84	82				81																
7	94	88	83	80	93	87	83	80	86	82	80	85	82	79	84	81	79				78																
8	92	85	81	78	91	84	80	77	83	80	77	83	79	77	82	79	77				76																
9	89	82	78	75	88	82	78	75	81	77	75	80	77	74	79	76	74				73																
10	87	80	75	73	86	79	75	73	79	75	72	78	75	72	77	74	72				71																

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

	0°
0°	947726
5°	858698
10°	605450
15°	427647
20°	294545
25°	158767
30°	11192
35°	2684
40°	1710
45°	1186
50°	981
55°	640
60°	526
65°	493
70°	305
75°	212
80°	316
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1335.2	29.0
10°-20°	2105.2	45.7
20°-30°	1110.5	24.1
30°-40°	33.9	0.7
40°-50°	12.4	0.3
50°-60°	6.5	0.1
60°-70°	3.7	0.1
70°-80°	1.4	0.0
80°-90°	0.1	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°	4550.8	98.7
0°-40°	4584.7	99.5
0°-60°	4603.6	99.9
0°-90°	4608.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4608.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	17288	
5°	15604	###
15°	7535	2105
25°	2625	1111
35°	40	34
45°	15	12
55°	7	6
65°	4	4
75°	1	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	17287.9
2.5°	16873.2
5°	15604.3
7.5°	13480.2
10°	10876.5
12.5°	9037.1
15°	7535.1
17.5°	6325.4
20°	5048.9
22.5°	3945.3
25°	2624.8
27.5°	1029.1
30°	176.8
32.5°	54.5
35°	40.1
37.5°	29.6
40°	23.9
42.5°	19.1
45°	15.3
47.5°	12.4
50°	11.5
52.5°	8.6
55°	6.7
57.5°	5.7
60°	4.8
62.5°	4.8
65°	3.8
67.5°	2.9
70°	1.9
72.5°	1.9
75°	1.0
77.5°	1.0
80°	1.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)