

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: P179741

Luminaire Tested: **LDA6A65830D010TE LARH20SP 6LAL1LI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P179741  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26678)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDA6A65830D010TE LARH20SP 6LAL1LI  
Description: PORTFOLIO 6" Lensed Adjustable, Self-flanged, 20° Spot  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5104.0 lumens  
Efficiency: N/A  
Efficacy: 65.4 lumens/watt  
Spacing Criteria (0/90/45): 0.35 / 0.35 / 0.45  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

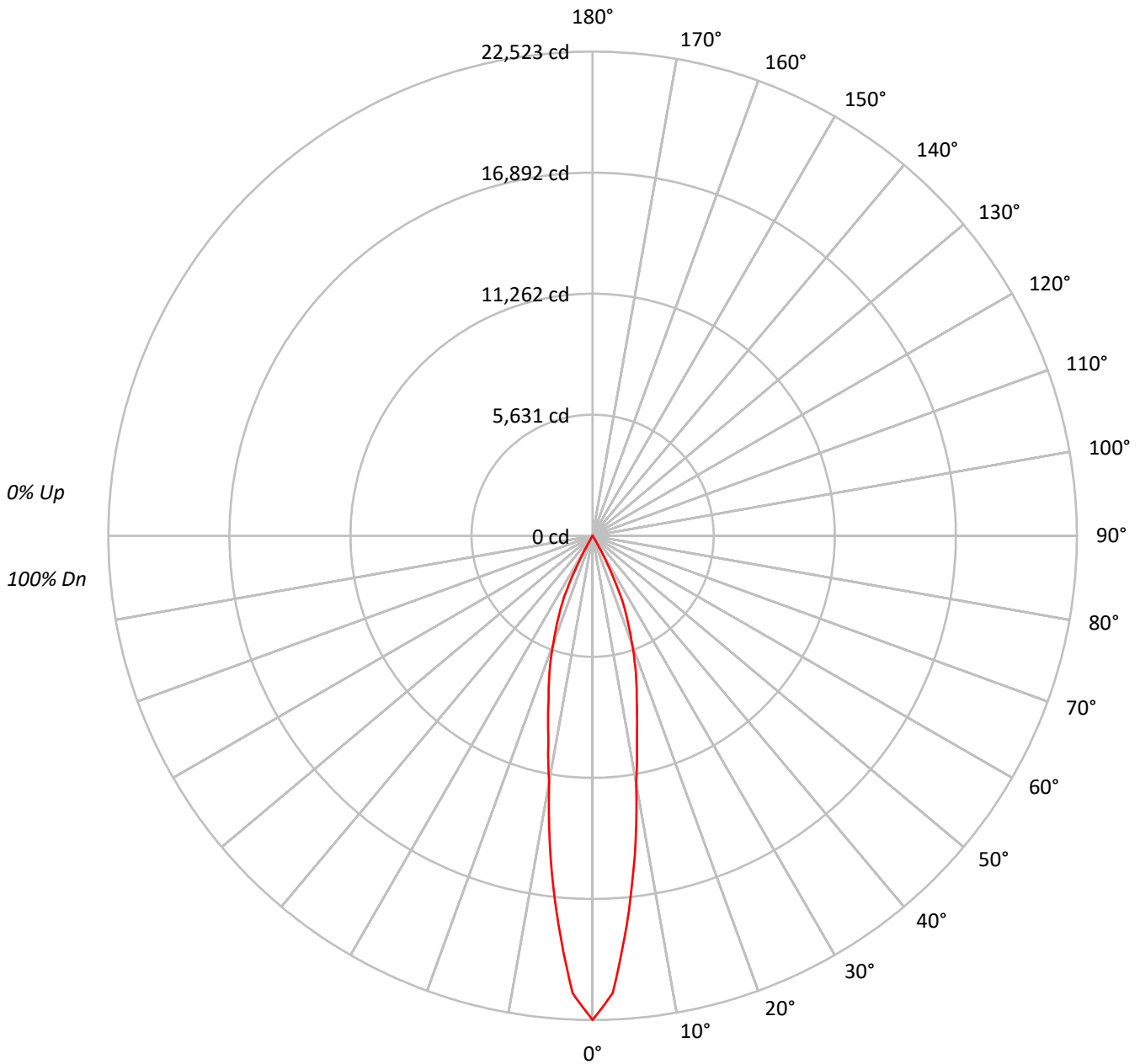
Input Watts (W): 78  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20				20				20				20				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	103	99	96	106	101	98	95	99	96	94	96	94	92	94	92	91	90	90	90	90
4	104	98	94	91	102	97	94	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	91	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	95	88	84	81	93	87	83	80	86	83	80	85	82	80	84	81	79	78	78	78	78
8	92	85	81	78	91	84	80	78	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	80	77	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°	1234720
5°	1000074
10°	648546
15°	448885
20°	313581
25°	188473
30°	19870
35°	1921
40°	1152
45°	713
50°	682
55°	984
60°	1129
65°	895
70°	737
75°	720
80°	726
85°	692



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1535.7	30.1
10°-20°	2224.8	43.6
20°-30°	1277.3	25.0
30°-40°	37.4	0.7
40°-50°	8.0	0.2
50°-60°	8.8	0.2
60°-70°	7.2	0.1
70°-80°	3.9	0.1
80°-90°	0.9	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°	5037.8	98.7
0°-40°	5075.2	99.4
0°-60°	5092.0	99.8
0°-90°	5104.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5104.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	22523	
5°	18173	###
15°	7909	2225
25°	3116	1277
35°	29	37
45°	9	8
55°	10	9
65°	7	7
75°	3	4
85°	1	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	22523.1
2.5°	21292.8
5°	18173.4
7.5°	15005.8
10°	11650.7
12.5°	9508.7
15°	7909.3
17.5°	6689.4
20°	5375.2
22.5°	4213.9
25°	3115.9
27.5°	1475.2
30°	313.9
32.5°	39.1
35°	28.7
37.5°	20.7
40°	16.1
42.5°	12.6
45°	9.2
47.5°	8.0
50°	8.0
52.5°	9.2
55°	10.3
57.5°	10.3
60°	10.3
62.5°	9.2
65°	6.9
67.5°	5.7
70°	4.6
72.5°	4.6
75°	3.4
77.5°	3.4
80°	2.3
82.5°	1.1
85°	1.1
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)