

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: P179790

Luminaire Tested: **LDA6A65835D010TE LARH20SP 6LFC1H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P179790  
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: LDA6A65835D010TE LARH20SP 6LFC1H  
Description: PORTFOLIO 6" Flat Cone, Self-flanged, 20° Spot  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5754.4 lumens  
Efficiency: N/A  
Efficacy: 73.8 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

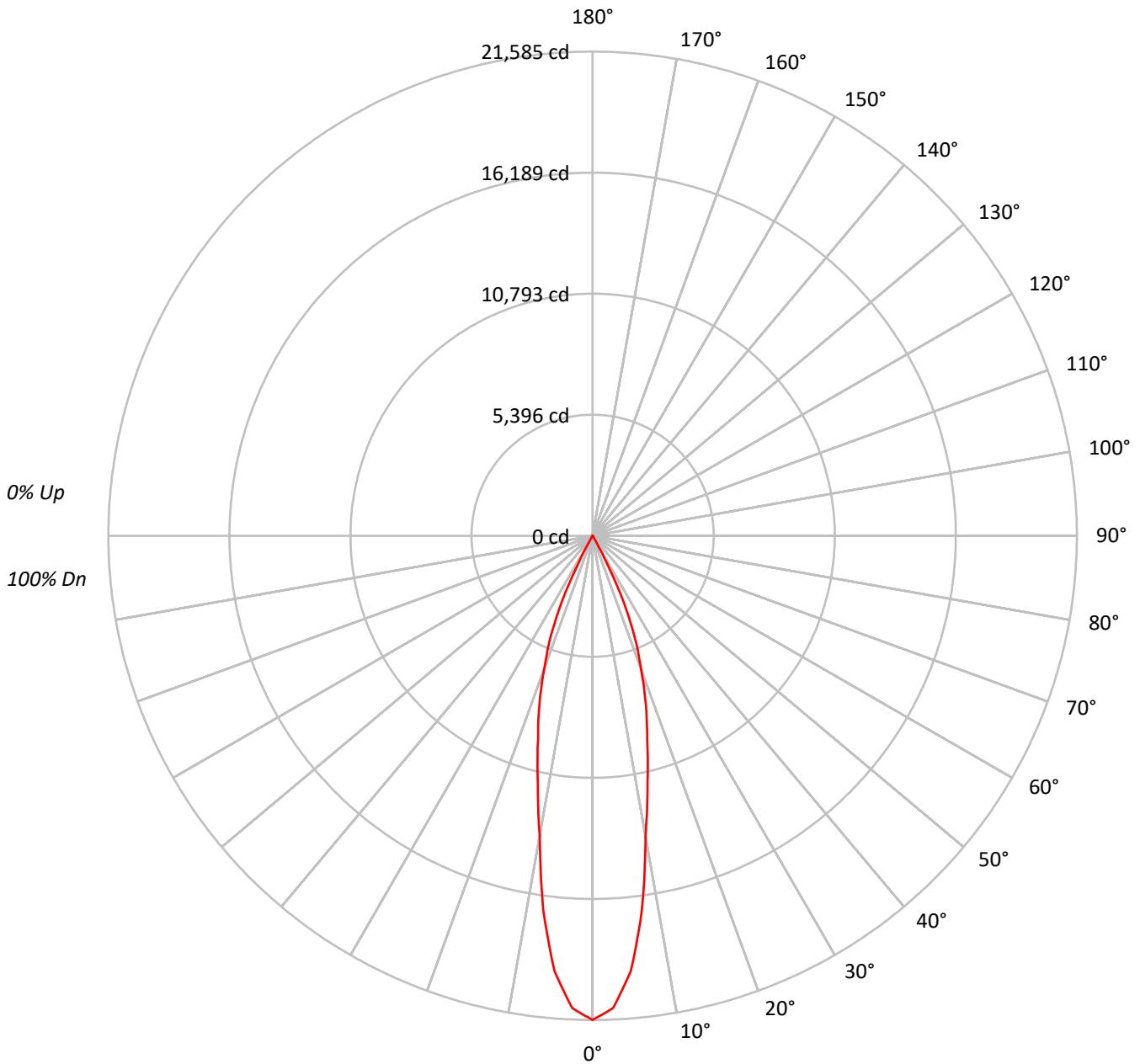
Input Watts (W): 78  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20				20				20				20				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	101	103	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	94	88	83	80	93	87	83	80	86	82	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	74	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°	1183315
5°	1072158
10°	755953
15°	533953
20°	367759
25°	198229
30°	13971
35°	3353
40°	2133
45°	1481
50°	1220
55°	803
60°	658
65°	623
70°	385
75°	254
80°	379
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1667.1	29.0
10°-20°	2628.5	45.7
20°-30°	1386.6	24.1
30°-40°	42.3	0.7
40°-50°	15.4	0.3
50°-60°	8.1	0.1
60°-70°	4.6	0.1
70°-80°	1.7	0.0
80°-90°	0.2	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°	5682.1	98.7
0°-40°	5724.4	99.5
0°-60°	5747.9	99.9
0°-90°	5754.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5754.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	21585	
5°	19483	###
15°	9408	2628
25°	3277	1387
35°	50	42
45°	19	15
55°	8	8
65°	5	5
75°	1	2
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	21585.4
2.5°	21067.6
5°	19483.3
7.5°	16831.2
10°	13580.2
12.5°	11283.6
15°	9408.2
17.5°	7897.8
20°	6303.9
22.5°	4926.0
25°	3277.2
27.5°	1284.9
30°	220.7
32.5°	68.0
35°	50.1
37.5°	37.0
40°	29.8
42.5°	23.9
45°	19.1
47.5°	15.5
50°	14.3
52.5°	10.7
55°	8.4
57.5°	7.2
60°	6.0
62.5°	6.0
65°	4.8
67.5°	3.6
70°	2.4
72.5°	2.4
75°	1.2
77.5°	1.2
80°	1.2
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)