

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: P179743

Luminaire Tested: **LDA6A65840D010TE LARH20SP 6LAL1LI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P179743  
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: LDA6A65840D010TE LARH20SP 6LAL1LI  
Description: PORTFOLIO 6" Lensed Adjustable, Self-flanged, 20° Spot  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5435.4 lumens  
Efficiency: N/A  
Efficacy: 69.7 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

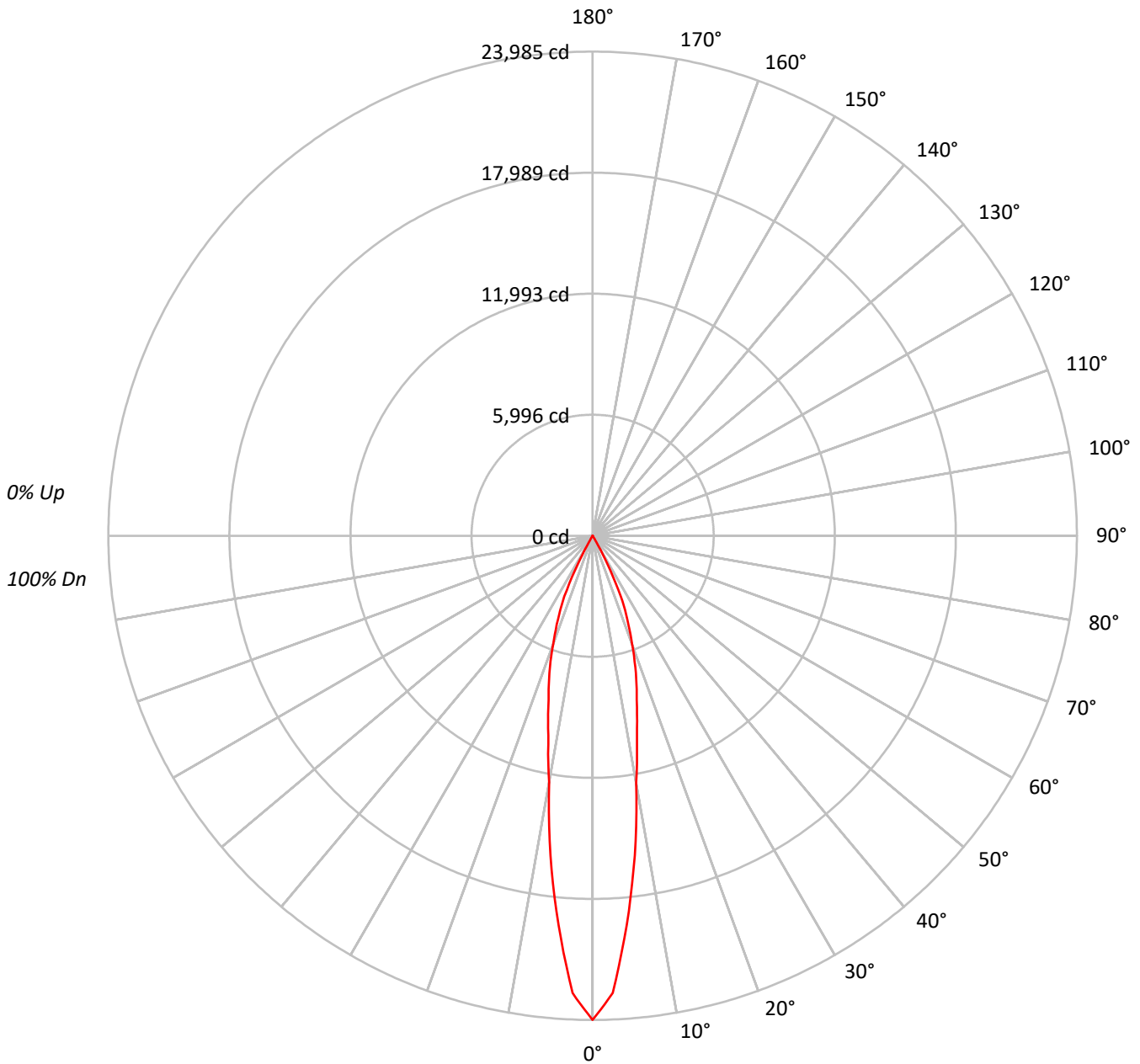
Input Watts (W): 78  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	105	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	80	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°	1314862
5°	1064993
10°	690646
15°	478022
20°	333935
25°	200709
30°	21161
35°	2048
40°	1224
45°	760
50°	733
55°	1051
60°	1206
65°	947
70°	785
75°	784
80°	758
85°	755



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1635.4	30.1
10°-20°	2369.2	43.6
20°-30°	1360.2	25.0
30°-40°	39.8	0.7
40°-50°	8.6	0.2
50°-60°	9.4	0.2
60°-70°	7.7	0.1
70°-80°	4.2	0.1
80°-90°	1.0	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°	5364.8	98.7
0°-40°	5404.6	99.4
0°-60°	5422.5	99.8
0°-90°	5435.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5435.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	23985	
5°	19353	###
15°	8423	2369
25°	3318	1360
35°	31	40
45°	10	9
55°	11	9
65°	7	8
75°	4	4
85°	1	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	23985.0
2.5°	22674.9
5°	19353.1
7.5°	15979.8
10°	12407.0
12.5°	10125.9
15°	8422.7
17.5°	7123.6
20°	5724.1
22.5°	4487.5
25°	3318.2
27.5°	1570.9
30°	334.3
32.5°	41.6
35°	30.6
37.5°	22.0
40°	17.1
42.5°	13.5
45°	9.8
47.5°	8.6
50°	8.6
52.5°	9.8
55°	11.0
57.5°	11.0
60°	11.0
62.5°	9.8
65°	7.3
67.5°	6.1
70°	4.9
72.5°	4.9
75°	3.7
77.5°	3.7
80°	2.4
82.5°	1.2
85°	1.2
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)