

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: P179616

Luminaire Tested: **LDA6A45927D010TE LARH40FL 6LFC1H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P179616  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26667)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDA6A45927D010TE LARH40FL 6LFC1H  
Description: PORTFOLIO 6" Flat Cone, Self-flanged, 40° Flood  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3845.8 lumens  
Efficiency: N/A  
Efficacy: 72.6 lumens/watt  
Spacing Criteria (0/90/45): 0.67 / 0.67 / 0.61  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

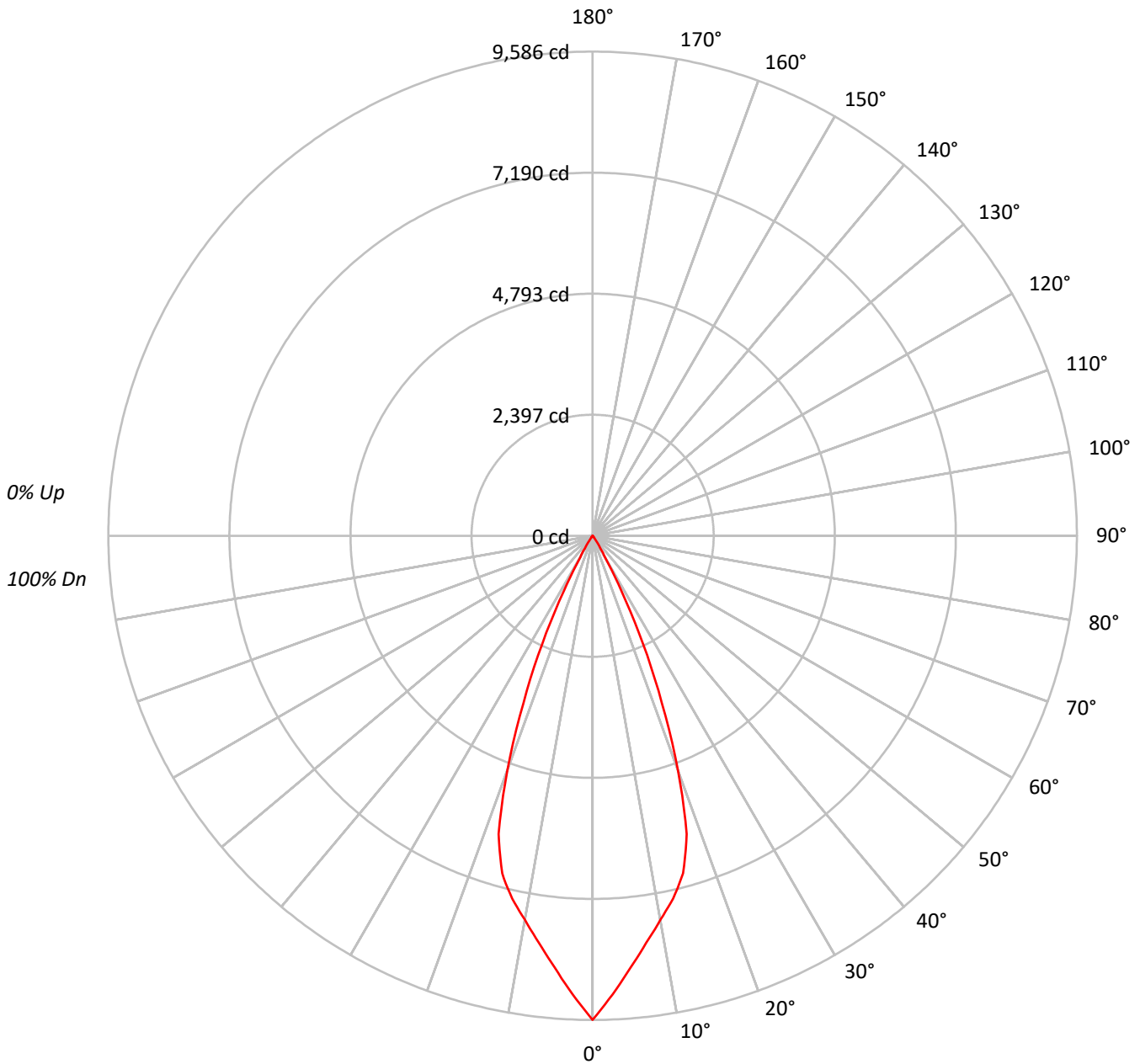
Input Watts (W): 53  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	112	110	108	112	110	108	107	106	105	103	103	101	100	99	98	98	96	96	96	96
2	110	107	103	101	108	105	102	99	102	99	97	99	97	95	96	95	93	92	92	92	92
3	106	101	97	94	105	100	96	94	98	95	92	95	93	91	93	91	89	88	88	88	88
4	103	97	92	89	101	96	92	89	94	90	88	92	89	87	90	88	86	84	84	84	84
5	99	93	88	85	98	92	87	84	90	86	84	89	85	83	87	84	82	81	81	81	81
6	96	89	84	81	94	88	84	81	87	83	80	85	82	79	84	81	79	78	78	78	78
7	92	85	81	77	91	85	80	77	83	80	77	82	79	76	81	78	76	75	75	75	75
8	89	82	77	74	88	81	77	74	80	76	74	80	76	73	79	75	73	72	72	72	72
9	86	79	74	71	85	78	74	71	78	74	71	77	73	71	76	73	70	69	69	69	69
10	84	76	71	68	83	76	71	68	75	71	68	74	71	68	74	70	68	67	67	67	67

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

	0°
0°	525501
5°	472401
10°	429735
15°	392817
20°	288244
25°	142478
30°	30941
35°	5862
40°	1596
45°	713
50°	392
55°	363
60°	252
65°	298
70°	240
75°	169
80°	253
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	794.1	20.6
10°-20°	1861.8	48.4
20°-30°	1081.6	28.1
30°-40°	93.8	2.4
40°-50°	8.1	0.2
50°-60°	3.2	0.1
60°-70°	2.0	0.1
70°-80°	0.9	0.0
80°-90°	0.3	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°	3737.6	97.2
0°-40°	3831.4	99.6
0°-60°	3842.6	99.9
0°-90°	3845.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3845.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	9586	
5°	8584	794
15°	6921	1862
25°	2356	1082
35°	88	94
45°	9	8
55°	4	3
65°	2	2
75°	1	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	9585.9
2.5°	9084.8
5°	8584.5
7.5°	8130.3
10°	7719.9
12.5°	7359.4
15°	6921.4
17.5°	6190.5
20°	4940.9
22.5°	3579.0
25°	2355.5
27.5°	1230.4
30°	488.8
32.5°	253.6
35°	87.6
37.5°	36.1
40°	22.3
42.5°	13.8
45°	9.2
47.5°	6.1
50°	4.6
52.5°	3.8
55°	3.8
57.5°	3.1
60°	2.3
62.5°	2.3
65°	2.3
67.5°	1.5
70°	1.5
72.5°	0.8
75°	0.8
77.5°	0.8
80°	0.8
82.5°	0.8
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)