

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: P179554

Luminaire Tested: **LDA6A45935D010TE LARH20SP 6LA1LI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P179554  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26660)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDA6A45935D010TE LARH20SP 6LA1LI  
Description: PORTFOLIO 6" Adjustable Reflector, Angle-cut Trim, Self-flanged, 20° Spot  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3587.7 lumens  
Efficiency: N/A  
Efficacy: 67.7 lumens/watt  
Spacing Criteria (0/90/45): 0.4 / 0.4 / 0.49  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

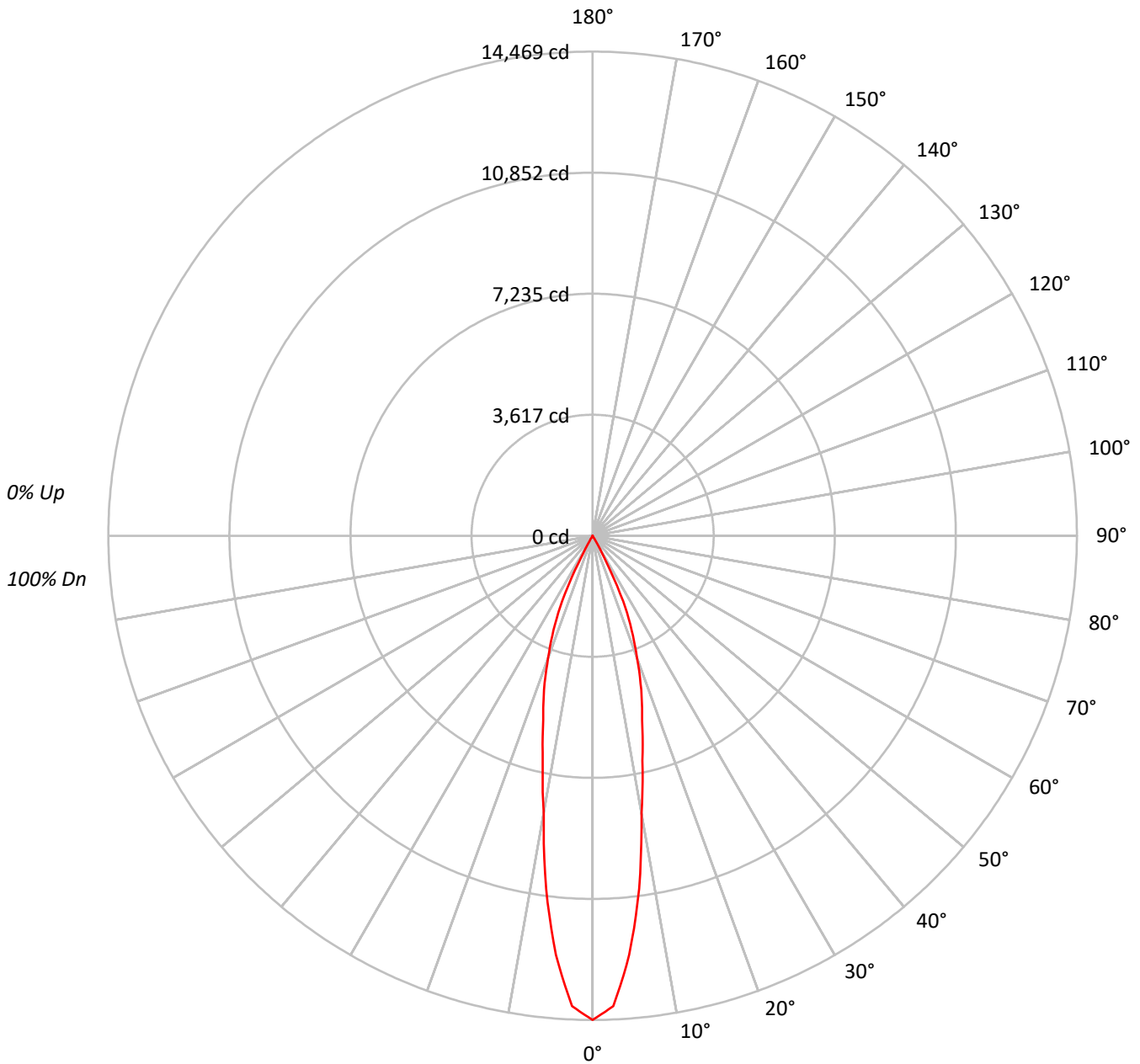
Input Watts (W): 53  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			93																
3	107	103	99	96	106	101	98	95	99	96	94	97	94	92	94	93	91	90			90																
4	104	98	94	91	102	97	94	91	95	92	90	94	91	89	92	90	88	87			87																
5	101	95	90	87	99	94	90	87	92	89	86	91	88	86	89	87	85	84			84																
6	98	91	87	84	96	91	87	84	89	86	83	88	85	83	87	84	82	81			81																
7	95	88	84	81	94	87	83	81	86	83	80	85	82	80	84	82	79	78			78																
8	92	85	81	78	91	85	81	78	84	80	78	83	80	77	82	79	77	76			76																
9	89	82	78	75	88	82	78	75	81	78	75	80	77	75	80	77	75	74			74																
10	87	80	76	73	86	80	76	73	79	75	73	78	75	73	78	75	72	71			71																

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

	0°
0°	793215
5°	691755
10°	468779
15°	323583
20°	226441
25°	130641
30°	9653
35°	796
40°	422
45°	264
50°	213
55°	239
60°	274
65°	221
70°	272
75°	169
80°	253
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1068.1	29.8
10°-20°	1606.5	44.8
20°-30°	887.2	24.7
30°-40°	17.5	0.5
40°-50°	2.9	0.1
50°-60°	2.2	0.1
60°-70°	2.0	0.1
70°-80°	1.2	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°	3561.8	99.3
0°-40°	3579.3	99.8
0°-60°	3584.4	99.9
0°-90°	3587.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3587.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	14469	
5°	12571	###
15°	5702	1606
25°	2160	887
35°	12	17
45°	3	3
55°	2	2
65°	2	2
75°	1	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	14469.4
2.5°	14068.6
5°	12570.6
7.5°	10643.8
10°	8421.3
12.5°	6881.8
15°	5701.5
17.5°	4824.5
20°	3881.5
22.5°	3051.1
25°	2159.8
27.5°	902.4
30°	152.5
32.5°	20.3
35°	11.9
37.5°	7.6
40°	5.9
42.5°	4.2
45°	3.4
47.5°	3.4
50°	2.5
52.5°	2.5
55°	2.5
57.5°	2.5
60°	2.5
62.5°	2.5
65°	1.7
67.5°	1.7
70°	1.7
72.5°	1.7
75°	0.8
77.5°	0.8
80°	0.8
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)