

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: P179602

Luminaire Tested: **LDA6A45935D010TE LARH20SP 6LFC1H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P179602  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26665)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDA6A45935D010TE LARH20SP 6LFC1H  
Description: PORTFOLIO 6" Flat Cone, 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): 0.43 / 0.43 / 0.51  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

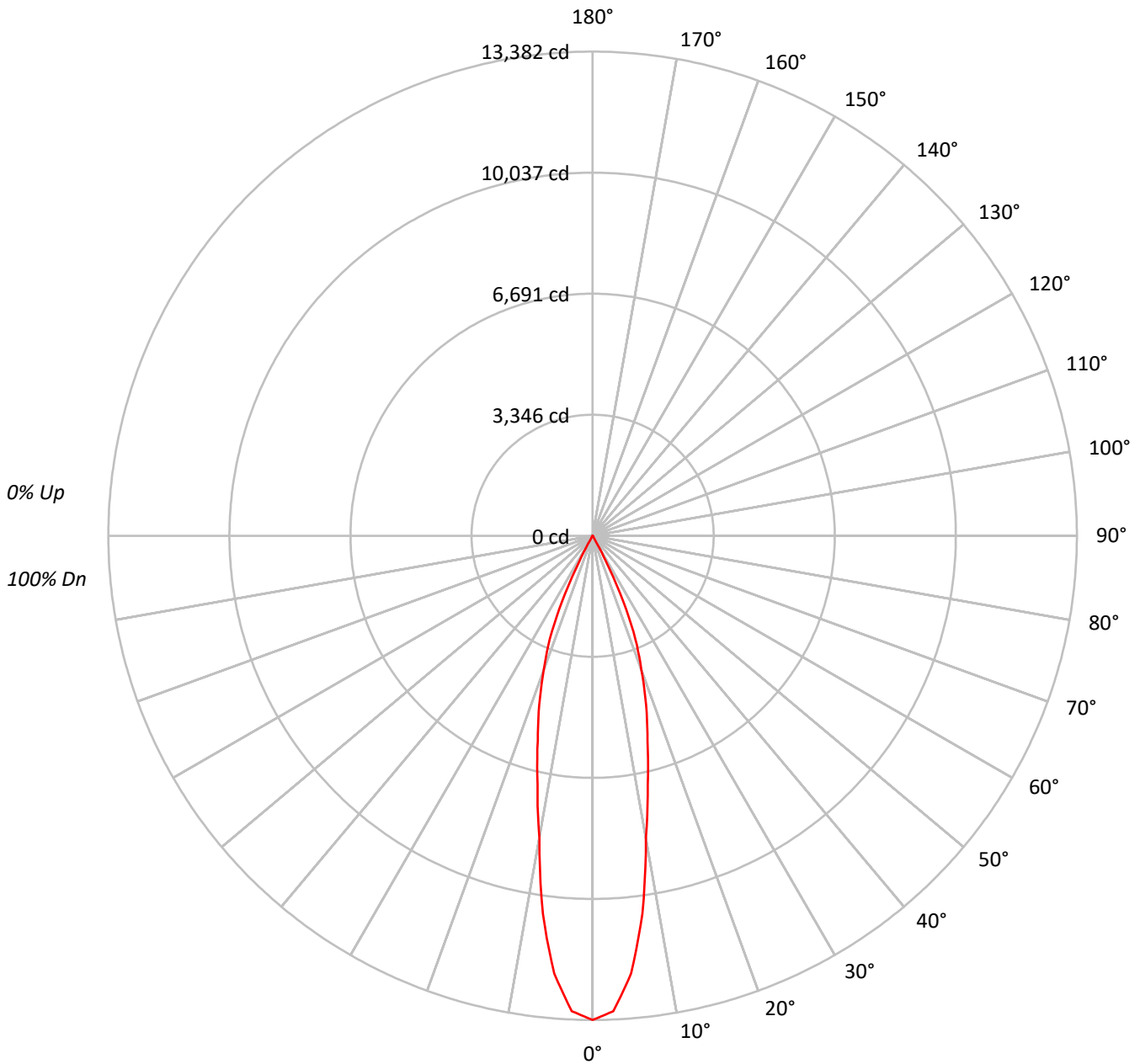
Input Watts (W): 53  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P179602

CATALOG NUMBER: LDA6A45935D010TE LARH20SP 6LFC1H

### Luminous Intensity Polar Plot





TEST NUMBER: P179602

CATALOG NUMBER: LDA6A45935D010TE LARH20SP 6LFC1H

**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	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	96	94	93	92	91	90	89	88	86																		
2	111	107	104	102	109	106	103	101	103	100	98	100	98	96	97	96	94	93	92	91	90	89	88	87	86	85	83																			
3	107	103	99	96	106	101	98	95	99	96	94	96	94	92	94	92	91	90	89	88	87	86	85	84	83	82	81																			
4	104	98	94	91	102	97	94	91	95	92	90	93	91	89	92	89	88	87	86	85	84	83	82	81	80	79	78																			
5	101	94	90	87	99	94	90	87	92	89	86	91	88	85	89	87	85	84	83	82	81	80	79	78	77	76	75																			
6	97	91	87	84	96	90	86	83	89	85	83	88	85	82	87	84	82	81	80	79	78	77	76	75	74	73	72																			
7	94	88	83	80	93	87	83	80	86	83	80	85	82	79	84	81	79	78	77	76	75	74	73	72	71	70	69																			
8	92	85	81	78	91	84	80	77	83	80	77	83	79	77	82	79	77	76	75	74	73	72	71	70	69	68	67																			
9	89	82	78	75	88	82	78	75	81	77	75	80	77	74	79	76	74	73	72	71	70	69	68	67	66	65	64																			
10	87	80	75	73	86	79	75	73	79	75	72	78	75	72	77	74	72	71	70	69	68	67	66	65	64	63	62																			

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

	0°
0°	733587
5°	668483
10°	472275
15°	332499
20°	229900
25°	122257
30°	8103
35°	2101
40°	1331
45°	985
50°	793
55°	564
60°	460
65°	441
70°	272
75°	169
80°	253
85°	0



TEST NUMBER: P179602

CATALOG NUMBER: LDA6A45935D010TE LARH20SP 6LFC1H

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1041.6	29.0
10°-20°	1638.4	45.7
20°-30°	861.8	24.0
30°-40°	25.9	0.7
40°-50°	10.0	0.3
50°-60°	5.5	0.2
60°-70°	3.0	0.1
70°-80°	1.2	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°	3541.8	98.7
0°-40°	3567.7	99.4
0°-60°	3583.2	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°	13382	
5°	12148	###
15°	5859	1638
25°	2021	862
35°	31	26
45°	13	10
55°	6	5
65°	3	3
75°	1	1
85°	0	0
90°	0	



TEST NUMBER: P179602

CATALOG NUMBER: LDA6A45935D010TE LARH20SP 6LFC1H

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	13381.7
2.5°	13152.0
5°	12147.7
7.5°	10546.0
10°	8484.1
12.5°	7038.3
15°	5858.6
17.5°	4912.0
20°	3940.8
22.5°	3095.0
25°	2021.2
27.5°	781.4
30°	128.0
32.5°	43.2
35°	31.4
37.5°	23.7
40°	18.6
42.5°	15.3
45°	12.7
47.5°	10.2
50°	9.3
52.5°	6.8
55°	5.9
57.5°	5.1
60°	4.2
62.5°	3.4
65°	3.4
67.5°	2.5
70°	1.7
72.5°	1.7
75°	0.8
77.5°	0.8
80°	0.8
82.5°	0.8
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093







— 0°-180°







(END OF REPORT)