

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: P179598

Luminaire Tested: **LDA6A45835D010TE LARH20SP 6LFC1H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P179598  
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: LDA6A45835D010TE 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: 4234.0 lumens  
Efficiency: N/A  
Efficacy: 79.9 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

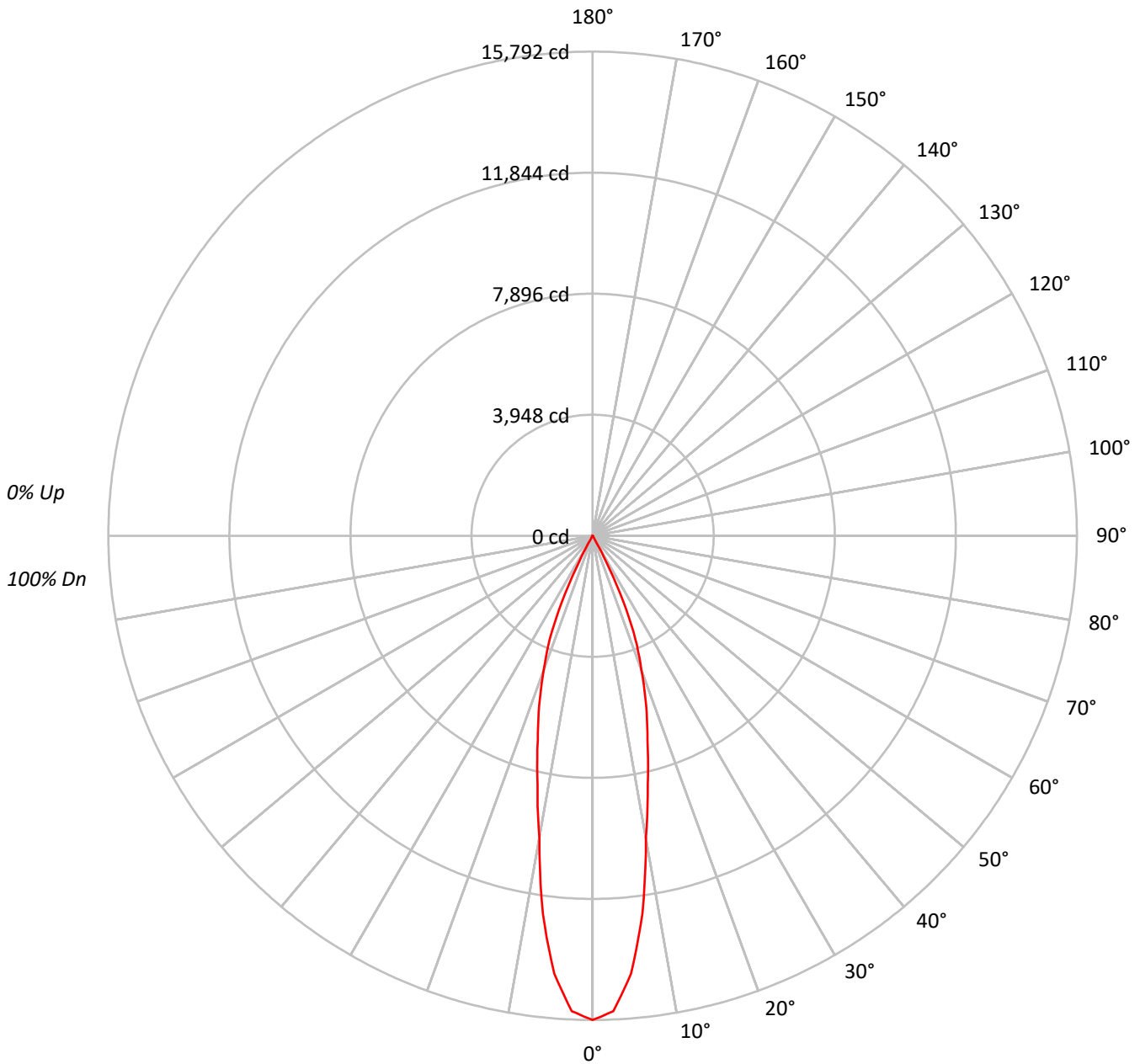
Input Watts (W): 53  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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																																				
1	115	113	111	109	113	111	109	107	107	105	104	103	102	101	100	99	98	96	96	94	94	92	91	90	89	88	87	85	83	81	78	76	73	71																				
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	85	83	81	78	76	73	71																							
3	107	103	99	96	106	101	98	95	99	96	94	96	94	92	94	92	91	90	89	88	87	85	83	81	78	76	73	71																										
4	104	98	94	91	102	97	94	91	95	92	90	93	91	89	92	89	88	86	85	84	83	82	81	80	79	78	77	76	75	74	73	72																						
5	101	94	90	87	99	94	90	87	92	89	86	91	88	85	89	87	85	83	81	78	76	73	71																															
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																														
8	92	85	81	78	91	84	80	77	83	80	77	83	79	77	82	79	77	76	75	74	73	72																																
9	89	82	78	75	88	82	78	75	81	77	75	80	77	74	79	76	74	73	72																																			
10	87	80	75	73	86	79	75	73	79	75	72	78	75	72	77	74	72																																					

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

	0°
0°	865709
5°	788887
10°	557338
15°	392386
20°	271303
25°	144281
30°	9558
35°	2476
40°	1574
45°	1163
50°	938
55°	669
60°	548
65°	519
70°	321
75°	212
80°	316
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1229.2	29.0
10°-20°	1933.5	45.7
20°-30°	1017.0	24.0
30°-40°	30.6	0.7
40°-50°	11.8	0.3
50°-60°	6.5	0.2
60°-70°	3.6	0.1
70°-80°	1.4	0.0
80°-90°	0.4	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°	4179.7	98.7
0°-40°	4210.3	99.4
0°-60°	4228.6	99.9
0°-90°	4234.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4234.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	15792	
5°	14336	###
15°	6914	1933
25°	2385	1017
35°	37	31
45°	15	12
55°	7	6
65°	4	4
75°	1	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	15791.8
2.5°	15520.8
5°	14335.7
7.5°	12445.4
10°	10012.2
12.5°	8306.0
15°	6913.8
17.5°	5796.7
20°	4650.5
22.5°	3652.4
25°	2385.3
27.5°	922.1
30°	151.0
32.5°	51.0
35°	37.0
37.5°	28.0
40°	22.0
42.5°	18.0
45°	15.0
47.5°	12.0
50°	11.0
52.5°	8.0
55°	7.0
57.5°	6.0
60°	5.0
62.5°	4.0
65°	4.0
67.5°	3.0
70°	2.0
72.5°	2.0
75°	1.0
77.5°	1.0
80°	1.0
82.5°	1.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)