

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: P179599

Luminaire Tested: **LDA6A45840D010TE LARH20SP 6LFC1H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P179599  
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: LDA6A45840D010TE LARH20SP 6LFC1H  
Description: PORTFOLIO 6" Flat Cone, 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: 4402.6 lumens  
Efficiency: N/A  
Efficacy: 83.1 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

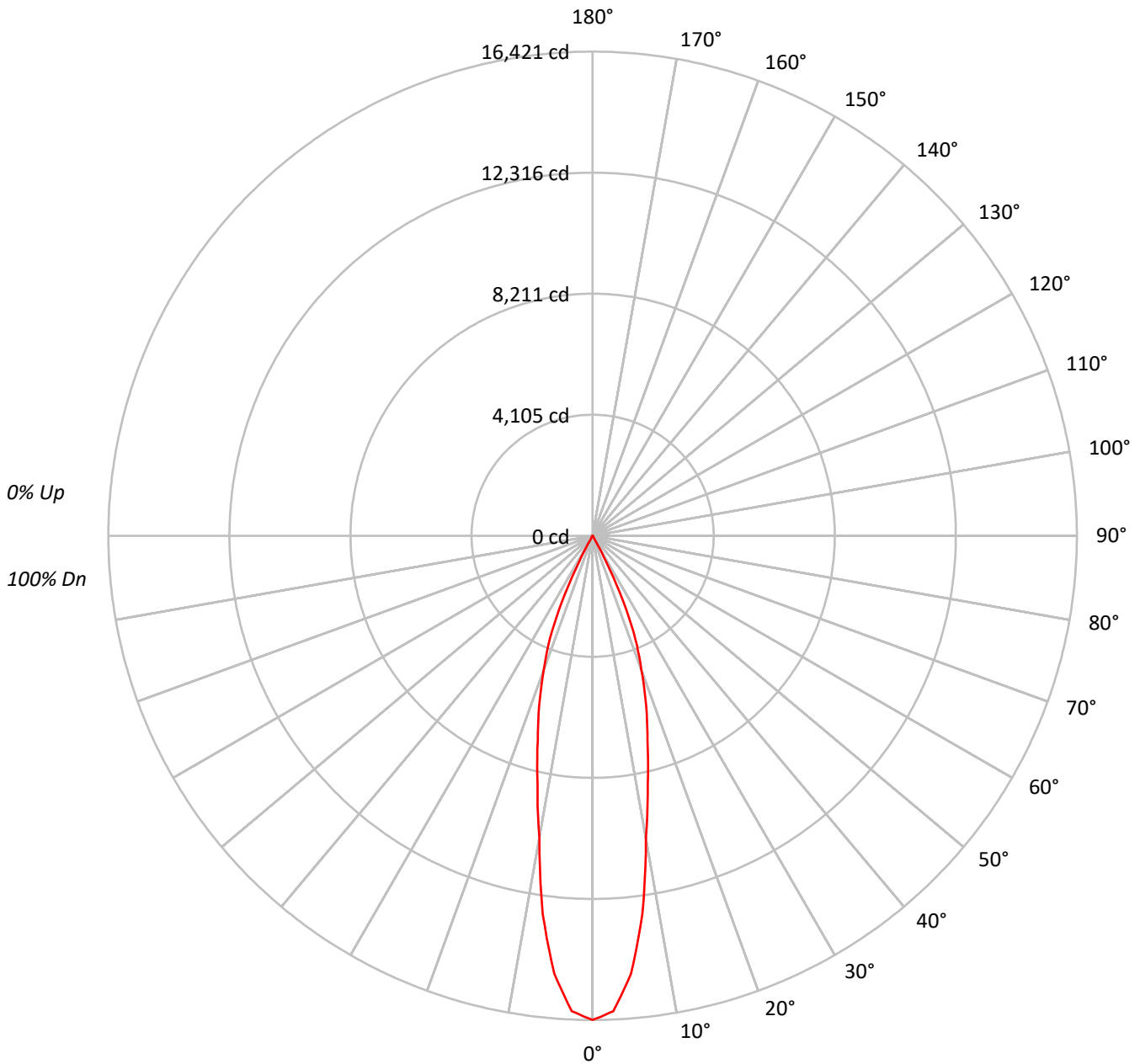
Input Watts (W): 53  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100
1	115	113	111	109	113	111	109	107	107	105	104	103	102	101	100	99	98	96	96	96
2	111	107	104	102	109	106	103	101	103	100	98	100	98	96	97	96	94	93	93	93
3	107	103	99	96	106	101	98	95	99	96	94	96	94	92	94	92	91	90	90	90
4	104	98	94	91	102	97	94	91	95	92	90	93	91	89	92	89	88	86	86	86
5	101	94	90	87	99	94	90	87	92	89	86	91	88	85	89	87	85	83	83	83
6	97	91	87	84	96	90	86	83	89	85	83	88	85	82	87	84	82	81	81	81
7	94	88	83	80	93	87	83	80	86	83	80	85	82	79	84	81	79	78	78	78
8	92	85	81	78	91	84	80	77	83	80	77	83	79	77	82	79	77	76	76	76
9	89	82	78	75	88	82	78	75	81	77	75	80	77	74	79	76	74	73	73	73
10	87	80	75	73	86	79	75	73	79	75	72	78	75	72	77	74	72	71	71	71

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

	0°
0°	900197
5°	820309
10°	579537
15°	408016
20°	282113
25°	150027
30°	9938
35°	2577
40°	1639
45°	1209
50°	972
55°	698
60°	570
65°	545
70°	337
75°	212
80°	316
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1278.1	29.0
10°-20°	2010.5	45.7
20°-30°	1057.5	24.0
30°-40°	31.8	0.7
40°-50°	12.3	0.3
50°-60°	6.7	0.2
60°-70°	3.7	0.1
70°-80°	1.5	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°	4346.2	98.7
0°-40°	4378.0	99.4
0°-60°	4397.0	99.9
0°-90°	4402.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4402.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	16421	
5°	14907	###
15°	7189	2011
25°	2480	1058
35°	38	32
45°	16	12
55°	7	7
65°	4	4
75°	1	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	16420.9
2.5°	16139.0
5°	14906.7
7.5°	12941.2
10°	10411.0
12.5°	8636.8
15°	7189.2
17.5°	6027.6
20°	4835.8
22.5°	3797.9
25°	2480.3
27.5°	958.8
30°	157.0
32.5°	53.0
35°	38.5
37.5°	29.1
40°	22.9
42.5°	18.7
45°	15.6
47.5°	12.5
50°	11.4
52.5°	8.3
55°	7.3
57.5°	6.2
60°	5.2
62.5°	4.2
65°	4.2
67.5°	3.1
70°	2.1
72.5°	2.1
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)