

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: P179791

Luminaire Tested: **LDA6A65840D010TE LARH20SP 6LFC1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P179791
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26681)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA6A65840D010TE 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: 5905.6 lumens
Efficiency: N/A
Efficacy: 75.7 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

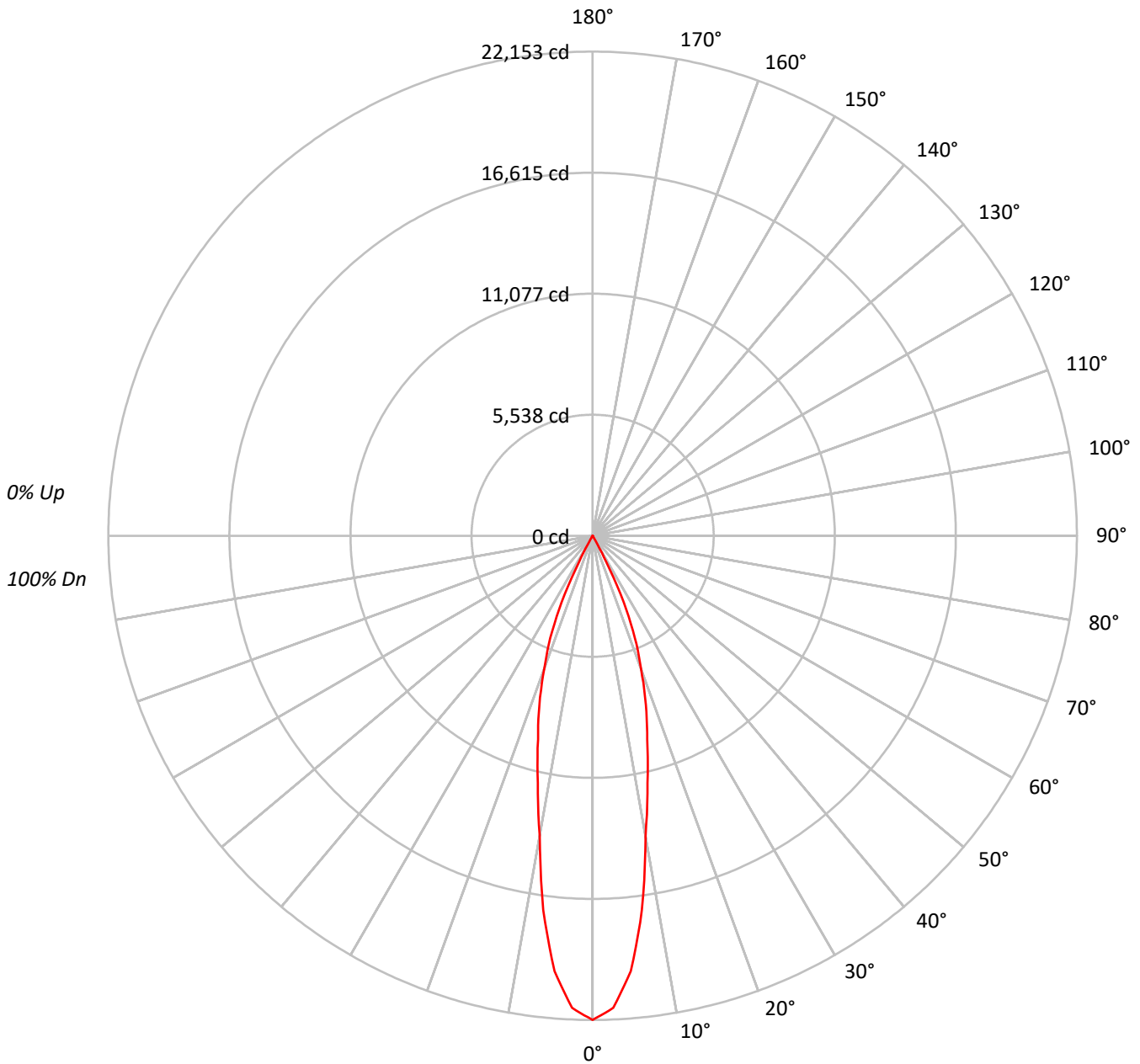
Input Watts (W): 78
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P179791

CATALOG NUMBER: LDA6A65840D010TE LARH20SP 6LFC1H

Luminous Intensity Polar Plot





TEST NUMBER: P179791

CATALOG NUMBER: LDA6A65840D010TE 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	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	113	111	109	113	111	109	107	107	105	104	103	102	101	100	99	98	96	96	96	96
2	111	107	104	102	109	106	103	101	103	100	98	100	98	96	97	96	94	93	93	93	93
3	107	103	99	96	106	101	98	95	99	96	94	96	94	92	94	92	91	90	90	90	90
4	104	98	94	91	102	97	94	91	95	92	90	93	91	89	92	89	88	86	86	86	86
5	101	94	90	87	99	94	90	87	92	89	86	91	88	85	89	87	85	83	83	83	83
6	97	91	87	84	96	90	86	83	89	85	83	88	85	82	87	84	82	81	81	81	81
7	94	88	83	80	93	87	83	80	86	82	80	85	82	79	84	81	79	78	78	78	78
8	92	85	81	78	91	84	80	77	83	80	77	83	79	77	82	79	77	76	76	76	76
9	89	82	78	75	88	82	78	75	81	77	75	80	77	74	79	76	74	73	73	73	73
10	87	80	75	73	86	79	75	73	79	75	72	78	75	72	77	74	72	71	71	71	71

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1214426
5°	1100344
10°	775826
15°	547988
20°	377432
25°	203443
30°	14338
35°	3440
40°	2190
45°	1520
50°	1254
55°	822
60°	669
65°	636
70°	385
75°	254
80°	379
85°	0



TEST NUMBER: P179791

CATALOG NUMBER: LDA6A65840D010TE LARH20SP 6LFC1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1710.9	29.0
10°-20°	2697.6	45.7
20°-30°	1423.0	24.1
30°-40°	43.4	0.7
40°-50°	15.8	0.3
50°-60°	8.3	0.1
60°-70°	4.7	0.1
70°-80°	1.7	0.0
80°-90°	0.2	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°	5831.5	98.7
0°-40°	5874.9	99.5
0°-60°	5899.0	99.9
0°-90°	5905.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5905.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	22153	
5°	19996	###
15°	9656	2698
25°	3363	1423
35°	51	43
45°	20	16
55°	9	8
65°	5	5
75°	1	2
85°	0	0
90°	0	



TEST NUMBER: P179791

CATALOG NUMBER: LDA6A65840D010TE LARH20SP 6LFC1H

CANDELA DISTRIBUTION (FULL):

	0°
0°	22152.9
2.5°	21621.5
5°	19995.5
7.5°	17273.7
10°	13937.2
12.5°	11580.3
15°	9655.5
17.5°	8105.5
20°	6469.7
22.5°	5055.5
25°	3363.4
27.5°	1318.7
30°	226.5
32.5°	69.8
35°	51.4
37.5°	38.0
40°	30.6
42.5°	24.5
45°	19.6
47.5°	15.9
50°	14.7
52.5°	11.0
55°	8.6
57.5°	7.3
60°	6.1
62.5°	6.1
65°	4.9
67.5°	3.7
70°	2.4
72.5°	2.4
75°	1.2
77.5°	1.2
80°	1.2
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)