

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: P179782

Luminaire Tested: **LDA6A55835D010TE LARH20SP 6LFC1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P179782
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: LDA6A55835D010TE 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: 4823.0 lumens
Efficiency: N/A
Efficacy: 79.1 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

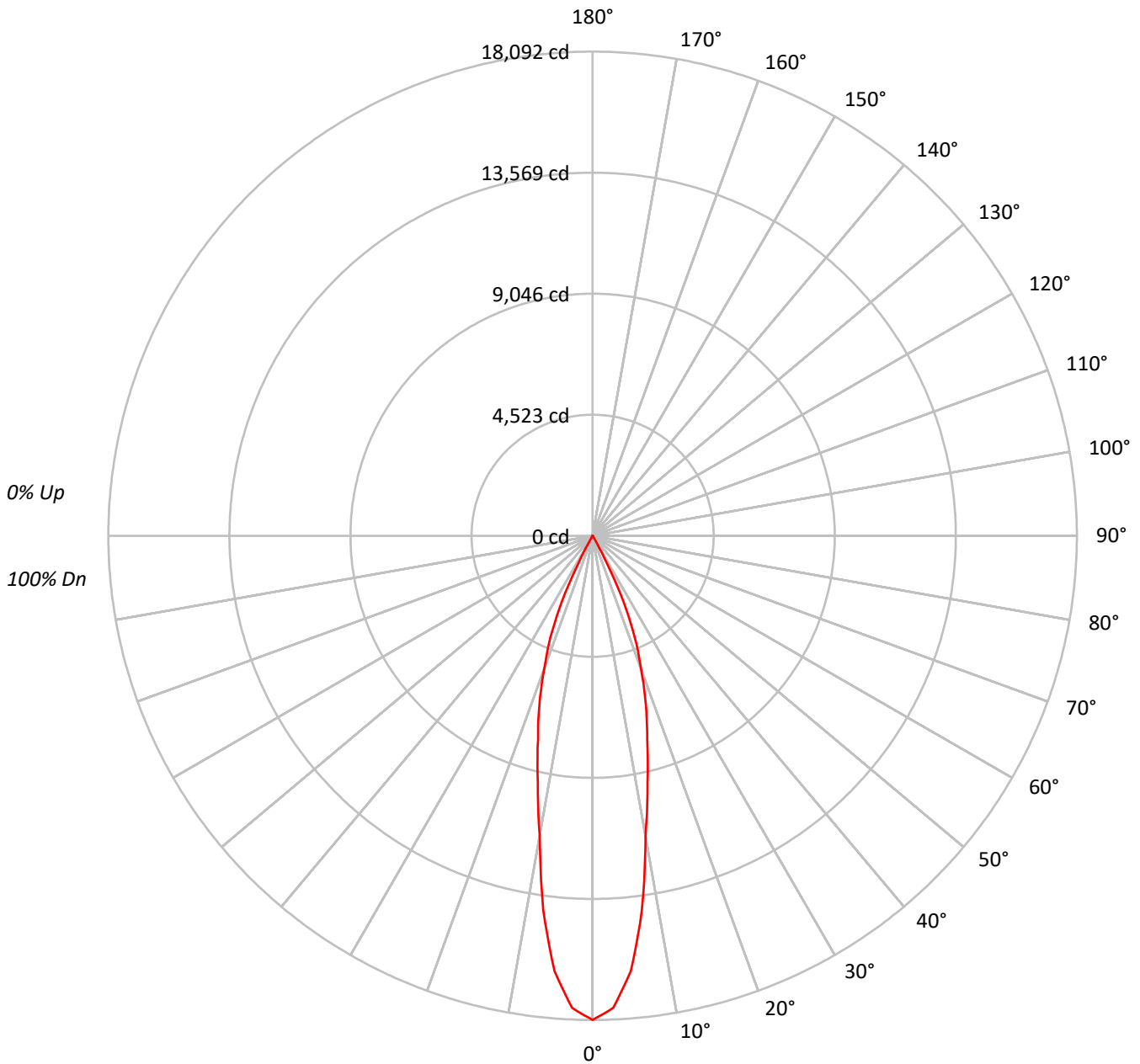
Input Watts (W): 61
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	94	94	92	91	90	88	86	83	81																		
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	84	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	80																		
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	77																		
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	74																		
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	71																		
7	94	88	83	80	93	87	83	80	86	82	80	85	82	79	84	81	79	78	77	76	75	74	73	72	71	70	69	68																		
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	66																		
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	63																		
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	61																		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	991790
5°	898622
10°	633600
15°	447528
20°	308237
25°	166147
30°	11711
35°	2811
40°	1789
45°	1240
50°	1023
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°	1397.2	29.0
10°-20°	2203.0	45.7
20°-30°	1162.1	24.1
30°-40°	35.5	0.7
40°-50°	12.9	0.3
50°-60°	6.8	0.1
60°-70°	3.8	0.1
70°-80°	1.4	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°	4762.4	98.7
0°-40°	4797.9	99.5
0°-60°	4817.6	99.9
0°-90°	4823.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4823.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	18092	
5°	16330	###
15°	7885	2203
25°	2747	1162
35°	42	35
45°	16	13
55°	7	7
65°	4	4
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	18091.7
2.5°	17657.7
5°	16329.8
7.5°	14107.0
10°	11382.2
12.5°	9457.3
15°	7885.4
17.5°	6619.5
20°	5283.6
22.5°	4128.7
25°	2746.8
27.5°	1076.9
30°	185.0
32.5°	57.0
35°	42.0
37.5°	31.0
40°	25.0
42.5°	20.0
45°	16.0
47.5°	13.0
50°	12.0
52.5°	9.0
55°	7.0
57.5°	6.0
60°	5.0
62.5°	5.0
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°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)