

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: P179694

Luminaire Tested: **LDA6A65835D010TE LARH20SP 6LA1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P179694
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26676)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA6A65835D010TE LARH20SP 6LA1LI
Description: PORTFOLIO 6" Adjustable Reflector, Angle-cut Trim, 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: 5818.9 lumens
Efficiency: N/A
Efficacy: 74.6 lumens/watt
Spacing Criteria (0/90/45): 0.4 / 0.4 / 0.48
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

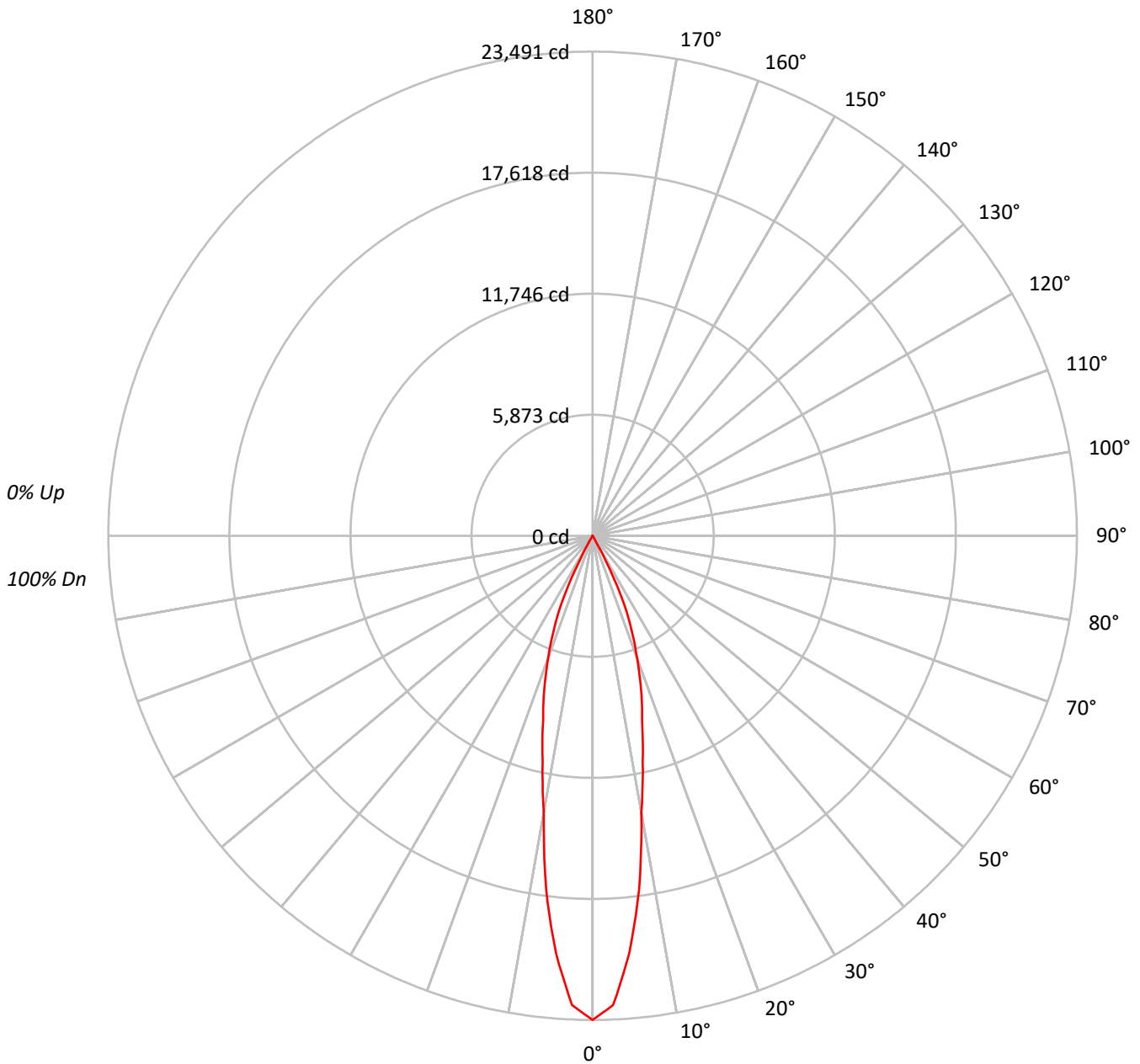
Input Watts (W): 78
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1287797
5°	1119577
10°	758603
15°	525866
20°	366470
25°	210877
30°	16541
35°	1359
40°	680
45°	465
50°	409
55°	344
60°	395
65°	467
70°	385
75°	254
80°	379
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1731.4	29.8
10°-20°	2607.9	44.8
20°-30°	1436.7	24.7
30°-40°	29.7	0.5
40°-50°	4.8	0.1
50°-60°	3.6	0.1
60°-70°	3.1	0.1
70°-80°	1.4	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°	5776.0	99.3
0°-40°	5805.7	99.8
0°-60°	5814.2	99.9
0°-90°	5818.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5818.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	23491	
5°	20345	###
15°	9266	2608
25°	3486	1437
35°	20	30
45°	6	5
55°	4	4
65°	4	3
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	23491.3
2.5°	22788.5
5°	20345.0
7.5°	17293.0
10°	13627.8
12.5°	11222.4
15°	9265.7
17.5°	7811.3
20°	6281.8
22.5°	4913.3
25°	3486.3
27.5°	1487.8
30°	261.3
32.5°	33.4
35°	20.3
37.5°	13.1
40°	9.5
42.5°	7.2
45°	6.0
47.5°	4.8
50°	4.8
52.5°	4.8
55°	3.6
57.5°	3.6
60°	3.6
62.5°	3.6
65°	3.6
67.5°	2.4
70°	2.4
72.5°	1.2
75°	1.2
77.5°	1.2
80°	1.2
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)