

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: P179740

Luminaire Tested: **LDA6A65827D010TE LARH20SP 6LAL1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P179740
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26678)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA6A65827D010TE LARH20SP 6LAL1LI
Description: PORTFOLIO 6" Lensed Adjustable, Self-flanged, 20° Spot
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4984.1 lumens
Efficiency: N/A
Efficacy: 63.9 lumens/watt
Spacing Criteria (0/90/45): 0.35 / 0.35 / 0.45
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

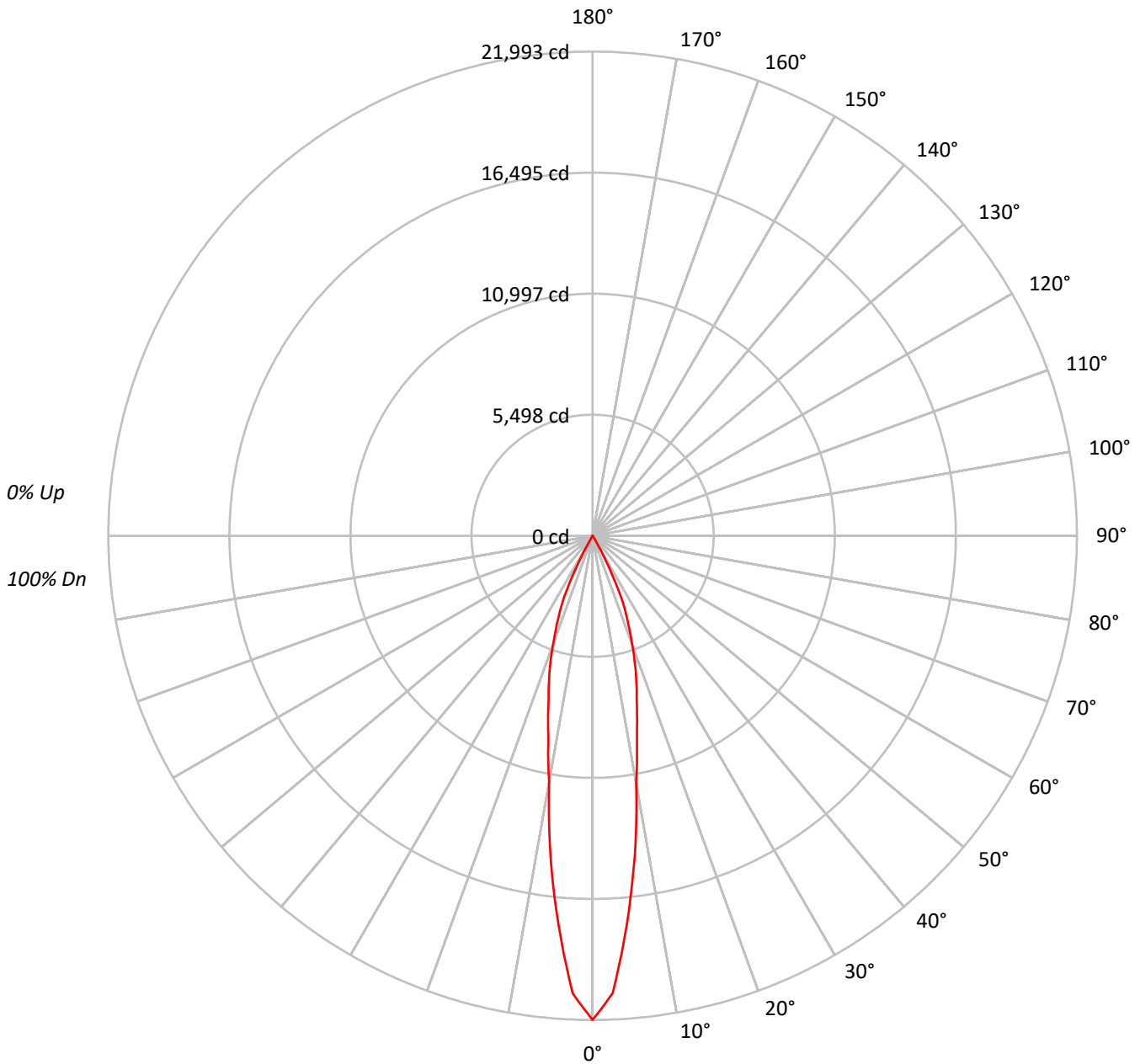
Input Watts (W): 78
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1205682
5°	976555
10°	633294
15°	438328
20°	306207
25°	184039
30°	19402
35°	1881
40°	1124
45°	698
50°	674
55°	965
60°	1107
65°	869
70°	721
75°	720
80°	695
85°	692



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1499.6	30.1
10°-20°	2172.4	43.6
20°-30°	1247.2	25.0
30°-40°	36.6	0.7
40°-50°	7.9	0.2
50°-60°	8.6	0.2
60°-70°	7.1	0.1
70°-80°	3.9	0.1
80°-90°	0.9	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°	4919.3	98.7
0°-40°	4955.8	99.4
0°-60°	4972.3	99.8
0°-90°	4984.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4984.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	21993	
5°	17746	###
15°	7723	2172
25°	3043	1247
35°	28	37
45°	9	8
55°	10	9
65°	7	7
75°	3	4
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	21993.4
2.5°	20792.0
5°	17746.0
7.5°	14652.9
10°	11376.7
12.5°	9285.1
15°	7723.3
17.5°	6532.1
20°	5248.8
22.5°	4114.8
25°	3042.6
27.5°	1440.5
30°	306.5
32.5°	38.2
35°	28.1
37.5°	20.2
40°	15.7
42.5°	12.4
45°	9.0
47.5°	7.9
50°	7.9
52.5°	9.0
55°	10.1
57.5°	10.1
60°	10.1
62.5°	9.0
65°	6.7
67.5°	5.6
70°	4.5
72.5°	4.5
75°	3.4
77.5°	3.4
80°	2.2
82.5°	1.1
85°	1.1
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)