

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: P179692

Luminaire Tested: **LDA6A65827D010TE LARH20SP 6LA1LI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P179692  
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: LDA6A65827D010TE LARH20SP 6LA1LI  
Description: PORTFOLIO 6" Adjustable Reflector, Angle-cut Trim, 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: 5475.9 lumens  
Efficiency: N/A  
Efficacy: 70.2 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

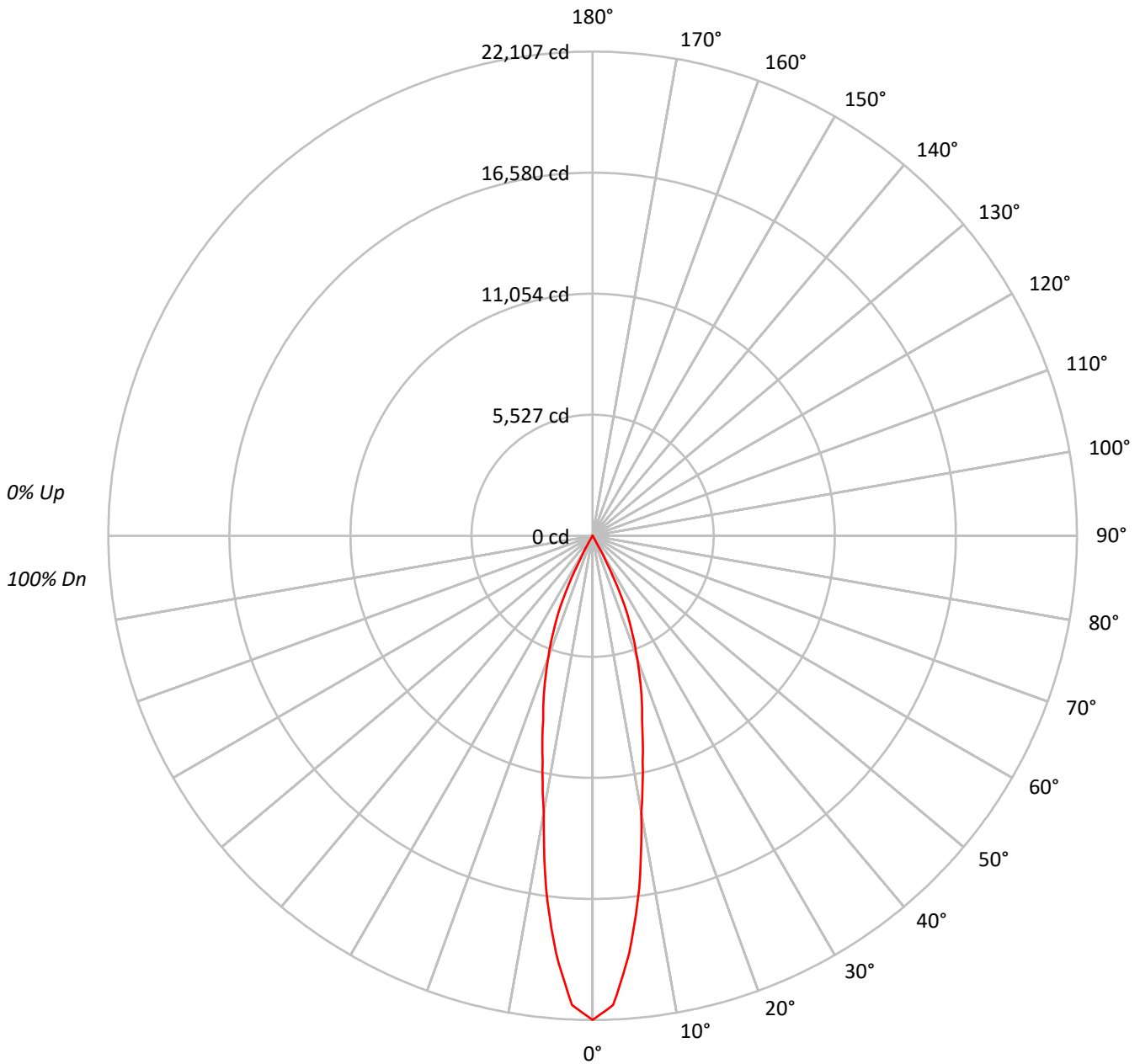
Input Watts (W): 78  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20																	
RC	80									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	98	99	98	96	94	93	91	91	88	87	85	84														
2	111	107	104	102	109	106	103	101	103	100	98	100	98	96	97	96	94	93	91	91	88	87	85	84	82	79	78	76	74																
3	107	103	99	96	106	101	98	95	99	96	94	97	94	92	94	93	91	89	88	86	85	83	82	80	79	77	76	74																	
4	104	98	94	91	102	97	94	91	95	92	90	94	91	89	92	90	88	87	85	84	82	80	79	77	76	74																			
5	101	95	90	87	99	94	90	87	92	89	86	91	88	86	89	87	85	84	82	80	79	77	76	74																					
6	98	91	87	84	96	91	87	84	89	86	83	88	85	83	87	84	82	81	79	77	76	74																							
7	95	88	84	81	94	87	83	81	86	83	80	85	82	80	84	82	79	78	76	74																									
8	92	85	81	78	91	85	81	78	84	80	78	83	80	77	82	79	77	76	74																										
9	89	82	78	75	88	82	78	75	81	78	75	80	77	75	80	77	75	74																											
10	87	80	76	73	86	80	76	73	79	75	73	78	75	73	78	75	72	71																											

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

	0°
0°	1211904
5°	1053602
10°	713898
15°	494878
20°	344873
25°	198447
30°	15566
35°	1278
40°	644
45°	434
50°	384
55°	325
60°	373
65°	441
70°	353
75°	233
80°	347
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1629.4	29.8
10°-20°	2454.2	44.8
20°-30°	1352.0	24.7
30°-40°	28.0	0.5
40°-50°	4.5	0.1
50°-60°	3.4	0.1
60°-70°	2.9	0.1
70°-80°	1.3	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°	5435.6	99.3
0°-40°	5463.6	99.8
0°-60°	5471.5	99.9
0°-90°	5475.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5475.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	22107	
5°	19146	###
15°	8720	2454
25°	3281	1352
35°	19	28
45°	6	5
55°	3	3
65°	3	3
75°	1	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	22106.9
2.5°	21445.6
5°	19146.1
7.5°	16273.9
10°	12824.7
12.5°	10561.1
15°	8719.7
17.5°	7351.0
20°	5911.6
22.5°	4623.7
25°	3280.8
27.5°	1400.1
30°	245.9
32.5°	31.4
35°	19.1
37.5°	12.4
40°	9.0
42.5°	6.7
45°	5.6
47.5°	4.5
50°	4.5
52.5°	4.5
55°	3.4
57.5°	3.4
60°	3.4
62.5°	3.4
65°	3.4
67.5°	2.2
70°	2.2
72.5°	1.1
75°	1.1
77.5°	1.1
80°	1.1
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)