

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: P179747

Luminaire Tested: **LDA6A65940D010TE LARH20SP 6LAL1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P179747
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: LDA6A65940D010TE LARH20SP 6LAL1LI
Description: PORTFOLIO 6" Lensed Adjustable, Self-flanged, 20° Spot
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4630.7 lumens
Efficiency: N/A
Efficacy: 59.4 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

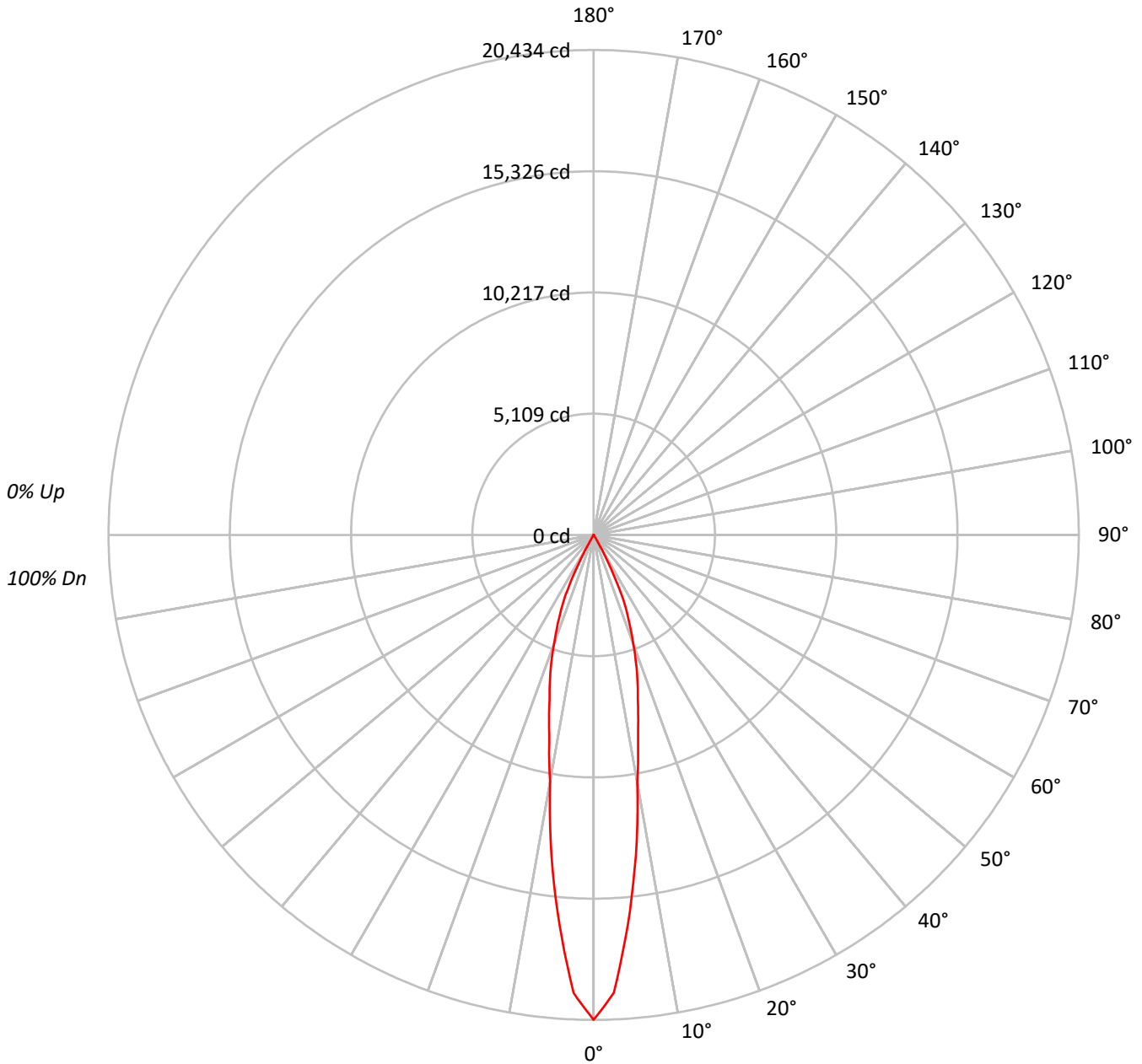
Input Watts (W): 78
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1120190
5°	907311
10°	588394
15°	407250
20°	284493
25°	170992
30°	18028
35°	1747
40°	1045
45°	643
50°	623
55°	898
60°	1031
65°	817
70°	673
75°	657
80°	663
85°	629



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1393.3	30.1
10°-20°	2018.4	43.6
20°-30°	1158.8	25.0
30°-40°	34.0	0.7
40°-50°	7.3	0.2
50°-60°	8.0	0.2
60°-70°	6.6	0.1
70°-80°	3.6	0.1
80°-90°	0.8	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°	4570.5	98.7
0°-40°	4604.5	99.4
0°-60°	4619.7	99.8
0°-90°	4630.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4630.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	20434	
5°	16488	###
15°	7176	2018
25°	2827	1159
35°	26	34
45°	8	7
55°	9	8
65°	6	7
75°	3	4
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	20433.9
2.5°	19317.8
5°	16487.7
7.5°	13613.9
10°	10570.1
12.5°	8626.7
15°	7175.7
17.5°	6068.9
20°	4876.6
22.5°	3823.1
25°	2826.9
27.5°	1338.3
30°	284.8
32.5°	35.5
35°	26.1
37.5°	18.8
40°	14.6
42.5°	11.5
45°	8.3
47.5°	7.3
50°	7.3
52.5°	8.3
55°	9.4
57.5°	9.4
60°	9.4
62.5°	8.3
65°	6.3
67.5°	5.2
70°	4.2
72.5°	4.2
75°	3.1
77.5°	3.1
80°	2.1
82.5°	1.0
85°	1.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)