

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: P179579

Luminaire Tested: **LDA6A45940D010TE LARH20SP 6LAL1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P179579
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26662)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA6A45940D010TE 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: 3428.8 lumens
Efficiency: N/A
Efficacy: 64.7 lumens/watt
Spacing Criteria (0/90/45): 0.37 / 0.37 / 0.47
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

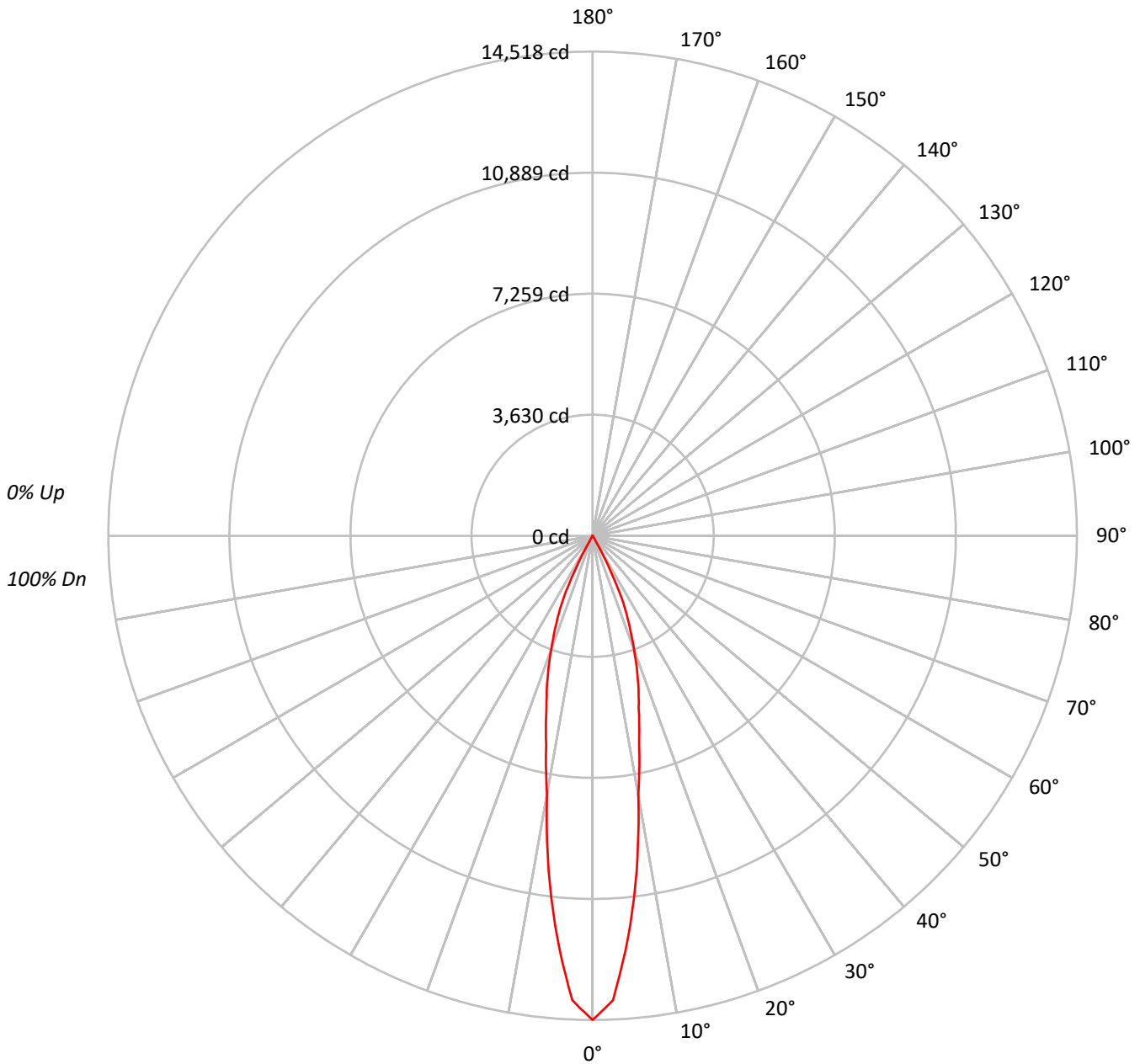
Input Watts (W): 53
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	115	113	111	109	113	111	109	107	107	105	104	103	102	101	100	99	98	96	96	96	96
2	111	107	104	102	109	106	103	100	102	100	98	100	98	96	97	96	94	93	93	93	93
3	107	102	99	96	105	101	98	95	99	96	94	96	94	92	94	92	91	89	89	89	89
4	104	98	94	91	102	97	93	91	95	92	90	93	91	89	92	89	88	86	86	86	86
5	101	94	90	87	99	94	90	87	92	89	86	90	88	85	89	87	85	83	83	83	83
6	97	91	87	84	96	90	86	83	89	85	83	88	85	82	87	84	82	81	81	81	81
7	94	88	83	80	93	87	83	80	86	83	80	85	82	79	84	81	79	78	78	78	78
8	92	85	81	78	91	84	80	77	83	80	77	83	79	77	82	79	77	76	76	76	76
9	89	82	78	75	88	82	78	75	81	77	75	80	77	75	79	76	74	73	73	73	73
10	87	80	75	73	86	79	75	73	79	75	72	78	75	72	77	74	72	71	71	71	71

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	795852
5°	667212
10°	439092
15°	302930
20°	211115
25°	125844
30°	12983
35°	1238
40°	759
45°	543
50°	529
55°	755
60°	767
65°	687
70°	561
75°	551
80°	568
85°	566



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1026.6	29.9
10°-20°	1502.3	43.8
20°-30°	854.2	24.9
30°-40°	24.5	0.7
40°-50°	5.8	0.2
50°-60°	6.6	0.2
60°-70°	5.2	0.2
70°-80°	2.8	0.1
80°-90°	0.7	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°	3383.1	98.7
0°-40°	3407.6	99.4
0°-60°	3420.1	99.7
0°-90°	3428.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3428.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	14518	
5°	12125	###
15°	5338	1502
25°	2080	854
35°	18	25
45°	7	6
55°	8	7
65°	5	5
75°	3	3
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	14517.5
2.5°	13939.3
5°	12124.6
7.5°	10132.1
10°	7888.0
12.5°	6435.0
15°	5337.6
17.5°	4509.4
20°	3618.8
22.5°	2840.0
25°	2080.5
27.5°	964.5
30°	205.1
32.5°	25.5
35°	18.5
37.5°	14.1
40°	10.6
42.5°	8.8
45°	7.0
47.5°	6.2
50°	6.2
52.5°	7.0
55°	7.9
57.5°	7.9
60°	7.0
62.5°	6.2
65°	5.3
67.5°	4.4
70°	3.5
72.5°	3.5
75°	2.6
77.5°	1.8
80°	1.8
82.5°	0.9
85°	0.9
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)