

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: P179575

Luminaire Tested: **LDA6A45840D010TE LARH20SP 6LAL1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P179575
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: LDA6A45840D010TE LARH20SP 6LAL1LI
Description: PORTFOLIO 6" Lensed Adjustable, Self-flanged, 20° Spot
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4051.2 lumens
Efficiency: N/A
Efficacy: 76.4 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

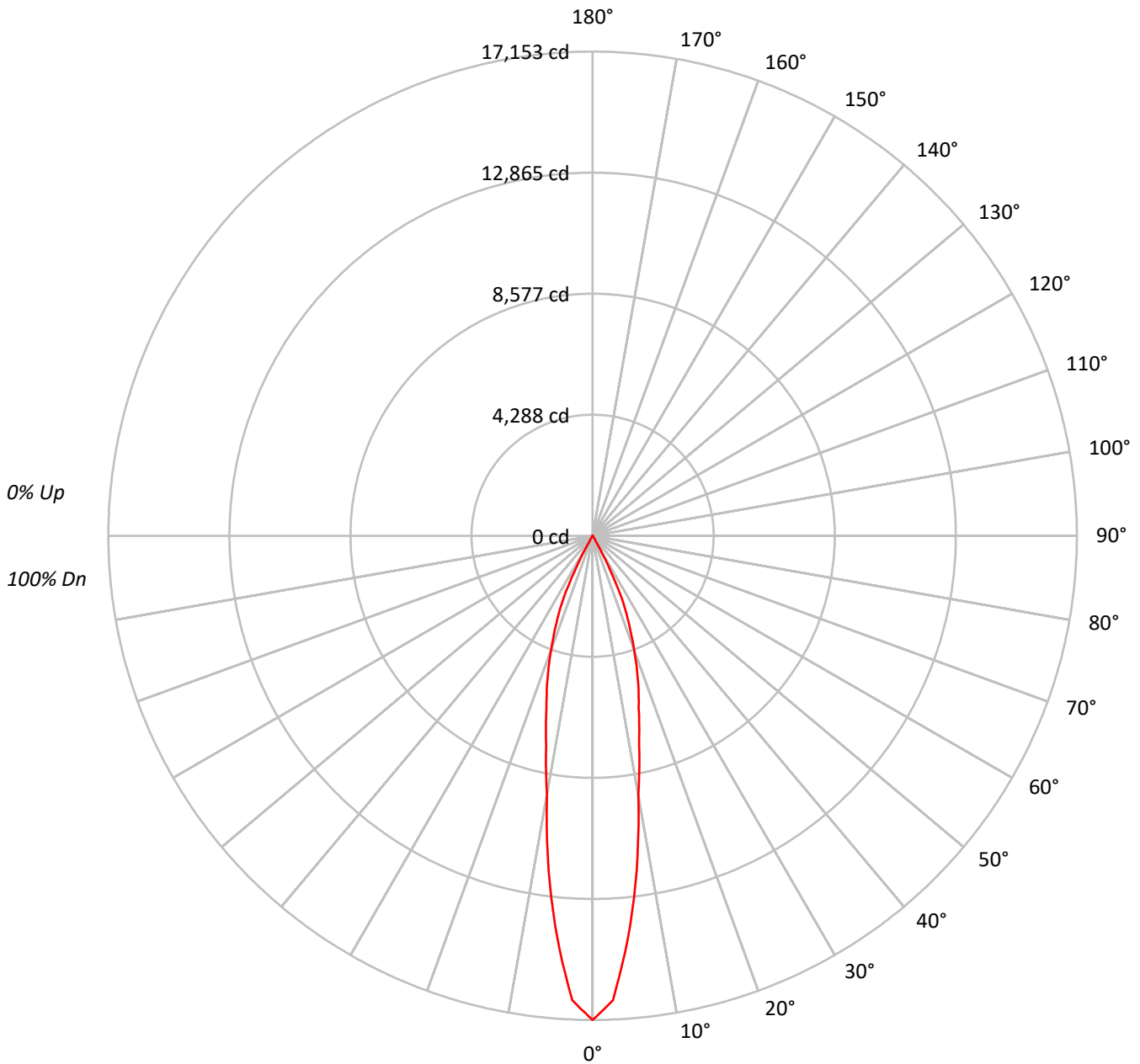
Input Watts (W): 53
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	940308
5°	788321
10°	518795
15°	357914
20°	249438
25°	148684
30°	15338
35°	1459
40°	895
45°	643
50°	623
55°	898
60°	910
65°	804
70°	673
75°	657
80°	663
85°	629



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1212.9	29.9
10°-20°	1775.0	43.8
20°-30°	1009.2	24.9
30°-40°	28.9	0.7
40°-50°	6.9	0.2
50°-60°	7.8	0.2
60°-70°	6.2	0.2
70°-80°	3.3	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°	3997.2	98.7
0°-40°	4026.2	99.4
0°-60°	4040.9	99.7
0°-90°	4051.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4051.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	17153	
5°	14325	###
15°	6306	1775
25°	2458	1009
35°	22	29
45°	8	7
55°	9	8
65°	6	6
75°	3	3
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	17152.6
2.5°	16469.5
5°	14325.4
7.5°	11971.3
10°	9319.8
12.5°	7603.1
15°	6306.4
17.5°	5328.0
20°	4275.7
22.5°	3355.5
25°	2458.1
27.5°	1139.6
30°	242.3
32.5°	30.2
35°	21.8
37.5°	16.6
40°	12.5
42.5°	10.4
45°	8.3
47.5°	7.3
50°	7.3
52.5°	8.3
55°	9.4
57.5°	9.4
60°	8.3
62.5°	7.3
65°	6.2
67.5°	5.2
70°	4.2
72.5°	4.2
75°	3.1
77.5°	2.1
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)