

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: P179549

Luminaire Tested: **LDA6A45830D010TE LARH20SP 6LA1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P179549
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26660)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA6A45830D010TE LARH20SP 6LA1LI
Description: PORTFOLIO 6" Adjustable Reflector, Angle-cut Trim, Self-flanged, 20° Spot
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4149.7 lumens
Efficiency: N/A
Efficacy: 78.3 lumens/watt
Spacing Criteria (0/90/45): 0.4 / 0.4 / 0.49
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

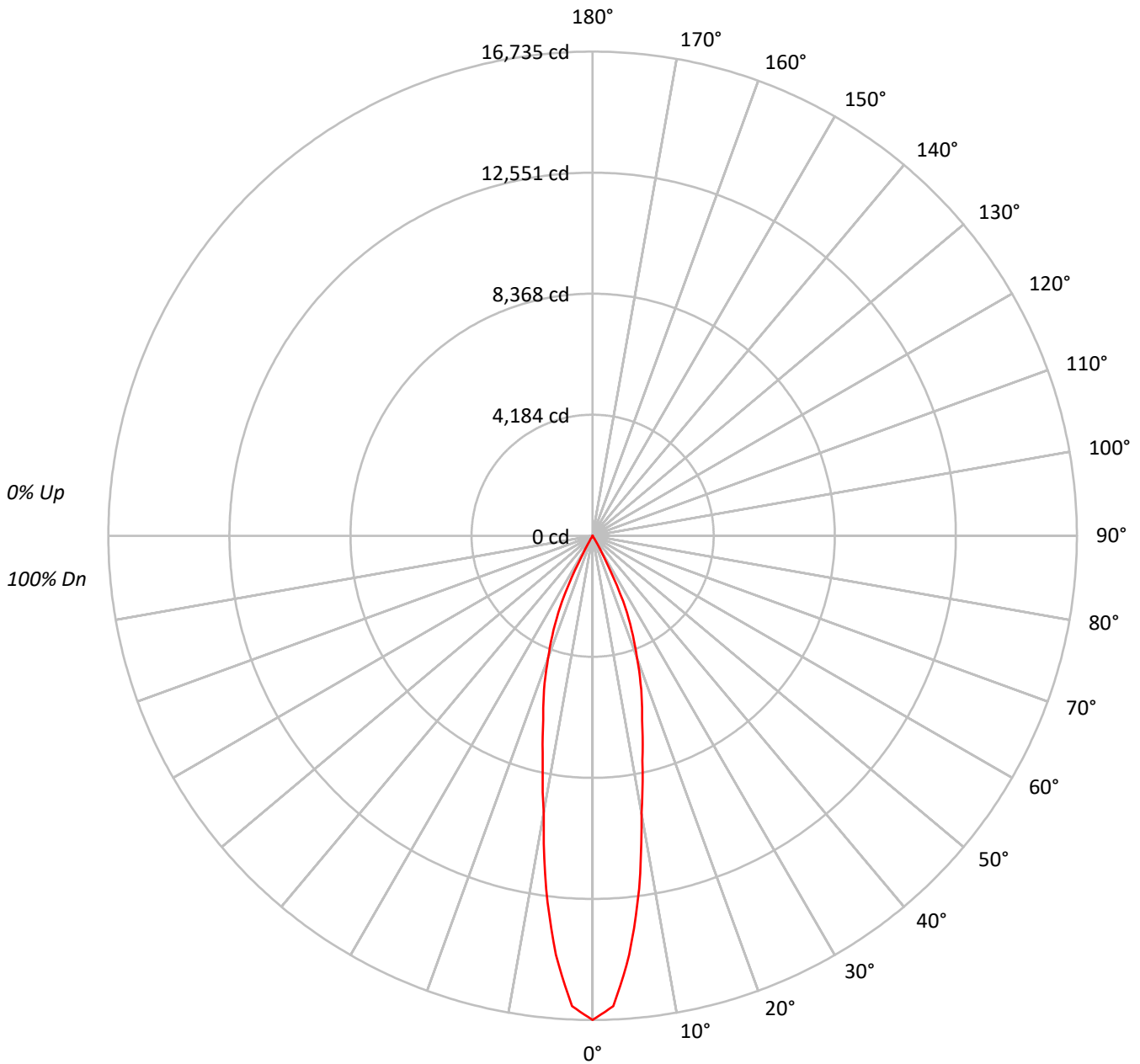
Input Watts (W): 53
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	917432
5°	800086
10°	542191
15°	374259
20°	261899
25°	151097
30°	11166
35°	917
40°	494
45°	302
50°	247
55°	277
60°	318
65°	259
70°	321
75°	212
80°	316
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1235.3	29.8
10°-20°	1858.0	44.8
20°-30°	1026.2	24.7
30°-40°	20.2	0.5
40°-50°	3.4	0.1
50°-60°	2.6	0.1
60°-70°	2.3	0.1
70°-80°	1.4	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°	4119.6	99.3
0°-40°	4139.8	99.8
0°-60°	4145.8	99.9
0°-90°	4149.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4149.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	16735	
5°	14539	###
15°	6594	1858
25°	2498	1026
35°	14	20
45°	4	3
55°	3	3
65°	2	2
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	16735.3
2.5°	16271.8
5°	14539.2
7.5°	12310.7
10°	9740.1
12.5°	7959.5
15°	6594.4
17.5°	5580.1
20°	4489.3
22.5°	3529.0
25°	2498.0
27.5°	1043.7
30°	176.4
32.5°	23.5
35°	13.7
37.5°	8.8
40°	6.9
42.5°	4.9
45°	3.9
47.5°	3.9
50°	2.9
52.5°	2.9
55°	2.9
57.5°	2.9
60°	2.9
62.5°	2.9
65°	2.0
67.5°	2.0
70°	2.0
72.5°	2.0
75°	1.0
77.5°	1.0
80°	1.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)