

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: P179596

Luminaire Tested: **LDA6A45827D010TE LARH20SP 6LFC1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P179596
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26665)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA6A45827D010TE LARH20SP 6LFC1H
Description: PORTFOLIO 6" Flat Cone, 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: 3855.8 lumens
Efficiency: N/A
Efficacy: 72.8 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.51
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

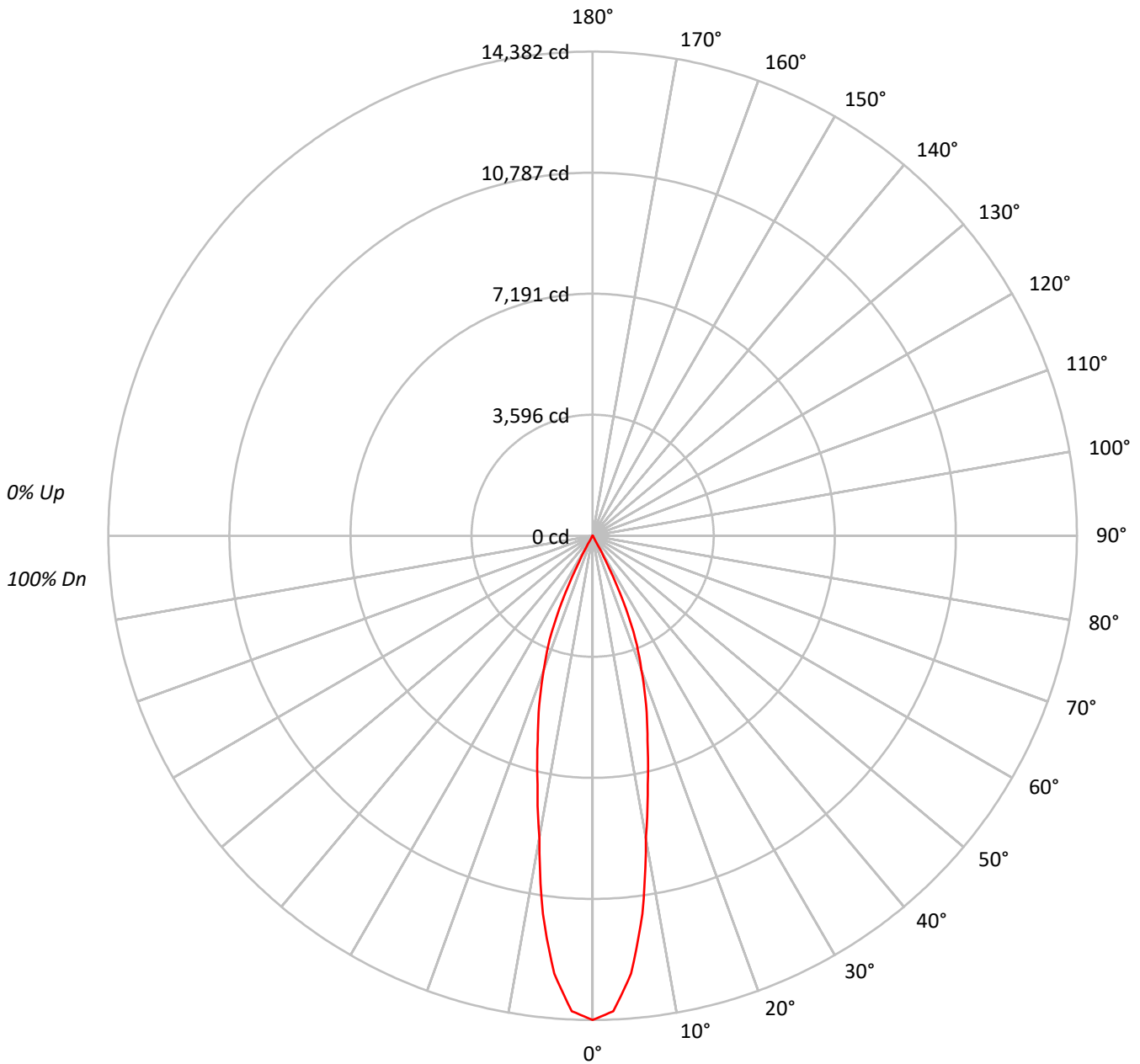
Input Watts (W): 53
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	788396
5°	718433
10°	507561
15°	357340
20°	247075
25°	131397
30°	8704
35°	2255
40°	1431
45°	1062
50°	853
55°	612
60°	504
65°	467
70°	289
75°	191
80°	284
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1119.4	29.0
10°-20°	1760.8	45.7
20°-30°	926.2	24.0
30°-40°	27.9	0.7
40°-50°	10.7	0.3
50°-60°	5.9	0.2
60°-70°	3.2	0.1
70°-80°	1.3	0.0
80°-90°	0.4	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°	3806.4	98.7
0°-40°	3834.3	99.4
0°-60°	3850.9	99.9
0°-90°	3855.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3855.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	14382	
5°	13055	###
15°	6296	1761
25°	2172	926
35°	34	28
45°	14	11
55°	6	6
65°	4	3
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	14381.5
2.5°	14134.7
5°	13055.4
7.5°	11334.0
10°	9118.0
12.5°	7564.2
15°	6296.3
17.5°	5279.0
20°	4235.2
22.5°	3326.2
25°	2172.3
27.5°	839.8
30°	137.5
32.5°	46.5
35°	33.7
37.5°	25.5
40°	20.0
42.5°	16.4
45°	13.7
47.5°	10.9
50°	10.0
52.5°	7.3
55°	6.4
57.5°	5.5
60°	4.6
62.5°	3.6
65°	3.6
67.5°	2.7
70°	1.8
72.5°	1.8
75°	0.9
77.5°	0.9
80°	0.9
82.5°	0.9
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)