

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: P179783

Luminaire Tested: **LDA6A55840D010TE LARH20SP 6LFC1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P179783
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26681)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA6A55840D010TE LARH20SP 6LFC1H
Description: PORTFOLIO 6" Flat Cone, 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: 4949.8 lumens
Efficiency: N/A
Efficacy: 81.1 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

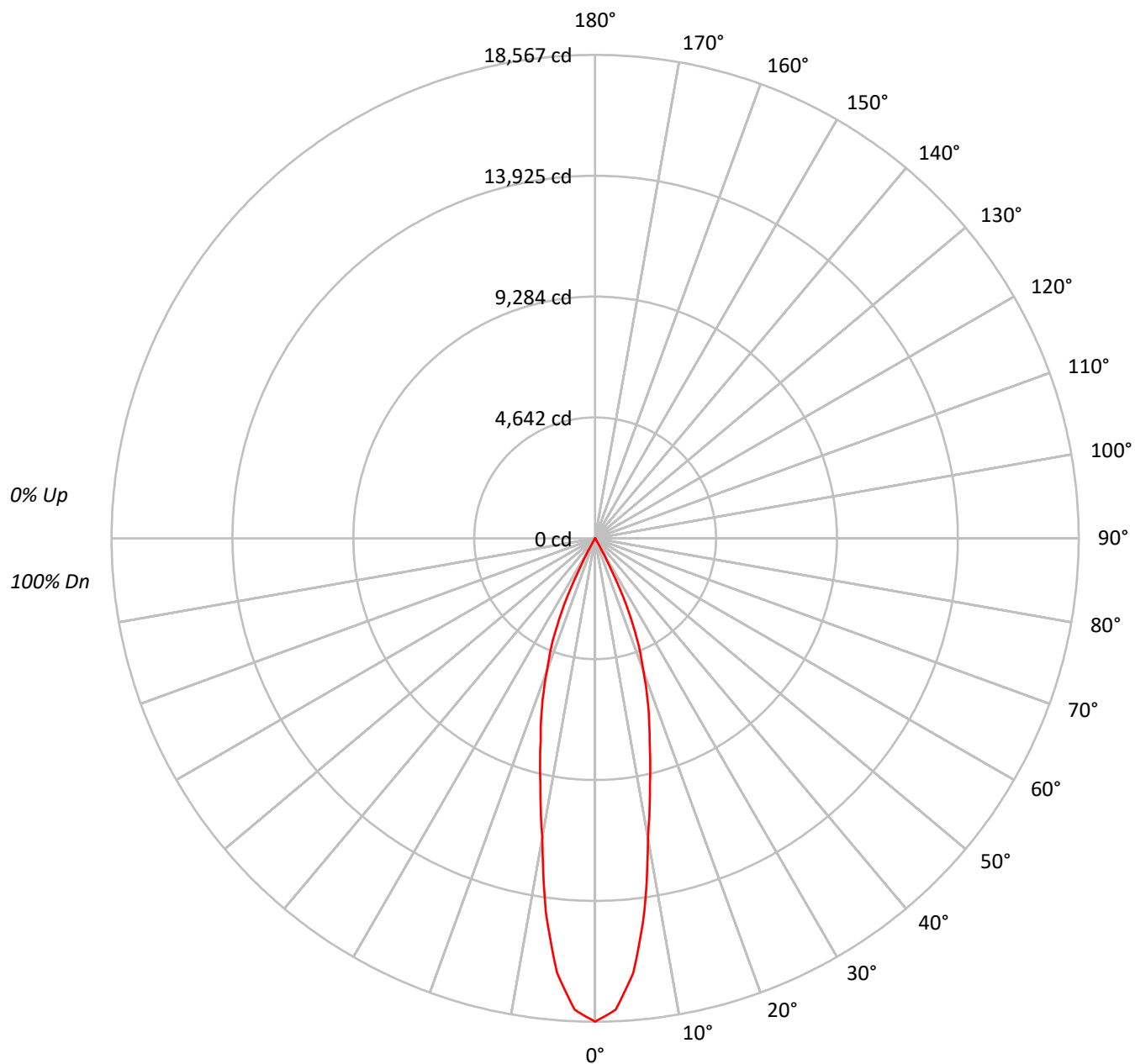
Input Watts (W): 61
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	115	113	111	109	113	111	109	107	107	105	104	103	102	101	100	99	98	96		
2	111	107	104	102	109	106	103	101	103	100	98	100	98	96	97	96	94	93		
3	107	103	99	96	106	101	98	95	99	96	94	96	94	92	94	92	91	90		
4	104	98	94	91	102	97	94	91	95	92	90	93	91	89	92	89	88	86		
5	101	94	90	87	99	94	90	87	92	89	86	91	88	85	89	87	85	83		
6	97	91	87	84	96	90	86	83	89	85	83	88	85	82	87	84	82	81		
7	94	88	83	80	93	87	83	80	86	82	80	85	82	79	84	81	79	78		
8	92	85	81	78	91	84	80	77	83	80	77	83	79	77	82	79	77	76		
9	89	82	78	75	88	82	78	75	81	77	75	80	77	74	79	76	74	73		
10	87	80	75	73	86	79	75	73	79	75	72	78	75	72	77	74	72	71		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1017868
5°	922252
10°	650255
15°	459293
20°	316340
25°	170514
30°	12021
35°	2884
40°	1839
45°	1271
50°	1049
55°	688
60°	559
65°	532
70°	337
75°	212
80°	316
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1434.0	29.0
10°-20°	2261.0	45.7
20°-30°	1192.7	24.1
30°-40°	36.4	0.7
40°-50°	13.3	0.3
50°-60°	7.0	0.1
60°-70°	3.9	0.1
70°-80°	1.5	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°	4887.6	98.7
0°-40°	4924.0	99.5
0°-60°	4944.2	99.9
0°-90°	4949.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4949.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	18567	
5°	16759	###
15°	8093	2261
25°	2819	1193
35°	43	36
45°	16	13
55°	7	7
65°	4	4
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	18567.4
2.5°	18122.0
5°	16759.2
7.5°	14477.9
10°	11681.4
12.5°	9706.0
15°	8092.7
17.5°	6793.6
20°	5422.5
22.5°	4237.3
25°	2819.0
27.5°	1105.2
30°	189.9
32.5°	58.5
35°	43.1
37.5°	31.8
40°	25.7
42.5°	20.5
45°	16.4
47.5°	13.3
50°	12.3
52.5°	9.2
55°	7.2
57.5°	6.2
60°	5.1
62.5°	5.1
65°	4.1
67.5°	3.1
70°	2.1
72.5°	2.1
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)