

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: P179744

Luminaire Tested: **LDA6A65927D010TE LARH20SP 6LAL1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P179744
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26678)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA6A65927D010TE LARH20SP 6LAL1LI
Description: PORTFOLIO 6" Lensed Adjustable, Self-flanged, 20° Spot
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3963.3 lumens
Efficiency: N/A
Efficacy: 50.8 lumens/watt
Spacing Criteria (0/90/45): 0.35 / 0.35 / 0.45
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

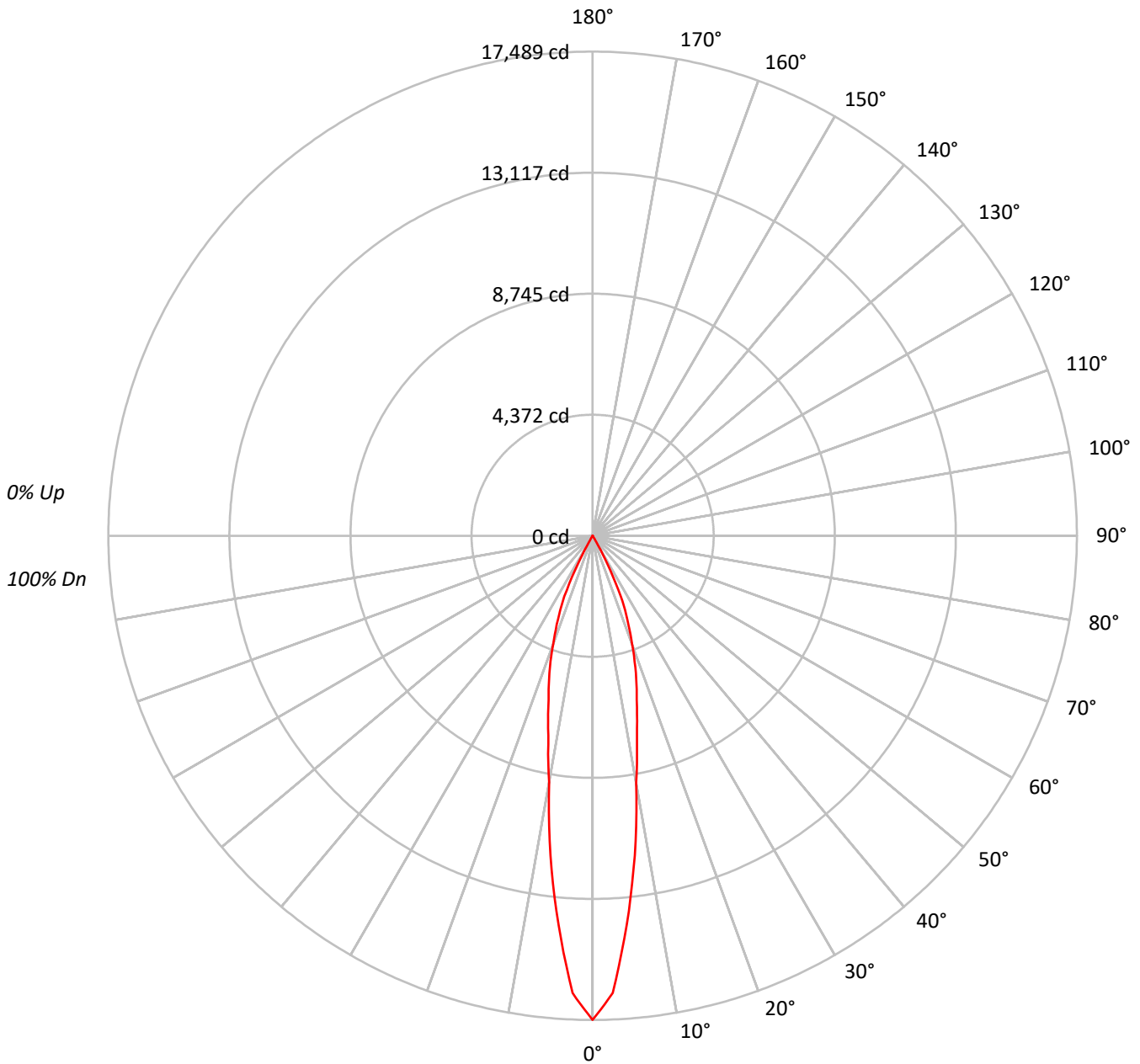
Input Watts (W): 78
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	99	96	105	101	98	95	99	96	94	96	94	92	94	92	91	90	90	90	90
4	104	98	94	91	102	97	94	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	91	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	95	88	84	80	93	87	83	80	86	83	80	85	82	80	84	81	79	78	78	78	78
8	92	85	81	78	91	84	80	78	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	80	77	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°	958733
5°	776539
10°	503587
15°	348555
20°	243493
25°	146343
30°	15426
35°	1492
40°	895
45°	550
50°	529
55°	765
60°	877
65°	700
70°	577
75°	572
80°	568
85°	566



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1192.5	30.1
10°-20°	1727.5	43.6
20°-30°	991.8	25.0
30°-40°	29.1	0.7
40°-50°	6.2	0.2
50°-60°	6.8	0.2
60°-70°	5.6	0.1
70°-80°	3.1	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°	3911.7	98.7
0°-40°	3940.8	99.4
0°-60°	3953.8	99.8
0°-90°	3963.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3963.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	17489	
5°	14111	###
15°	6142	1727
25°	2419	992
35°	22	29
45°	7	6
55°	8	7
65°	5	6
75°	3	3
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	17488.7
2.5°	16533.5
5°	14111.3
7.5°	11651.7
10°	9046.6
12.5°	7383.3
15°	6141.5
17.5°	5194.2
20°	4173.8
22.5°	3272.1
25°	2419.4
27.5°	1145.4
30°	243.7
32.5°	30.4
35°	22.3
37.5°	16.1
40°	12.5
42.5°	9.8
45°	7.1
47.5°	6.2
50°	6.2
52.5°	7.1
55°	8.0
57.5°	8.0
60°	8.0
62.5°	7.1
65°	5.4
67.5°	4.5
70°	3.6
72.5°	3.6
75°	2.7
77.5°	2.7
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)