

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: P133483

Luminaire Tested: **LD6A15D010TE ERN6A15940 6LN1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P133483
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23397)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6A15D010TE ERN6A15940 6LN1LI
Description: PORTFOLIO 6 INCH 50 DEGREE CUTOFF RECESSED DOWNLIGHT
NARROW DISTRIBUTION WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 4000K
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1437.7 lumens
Efficiency: N/A
Efficacy: 63.6 lumens/watt
Spacing Criteria (0/90/45): 0.41 / 0.41 / 0.49
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

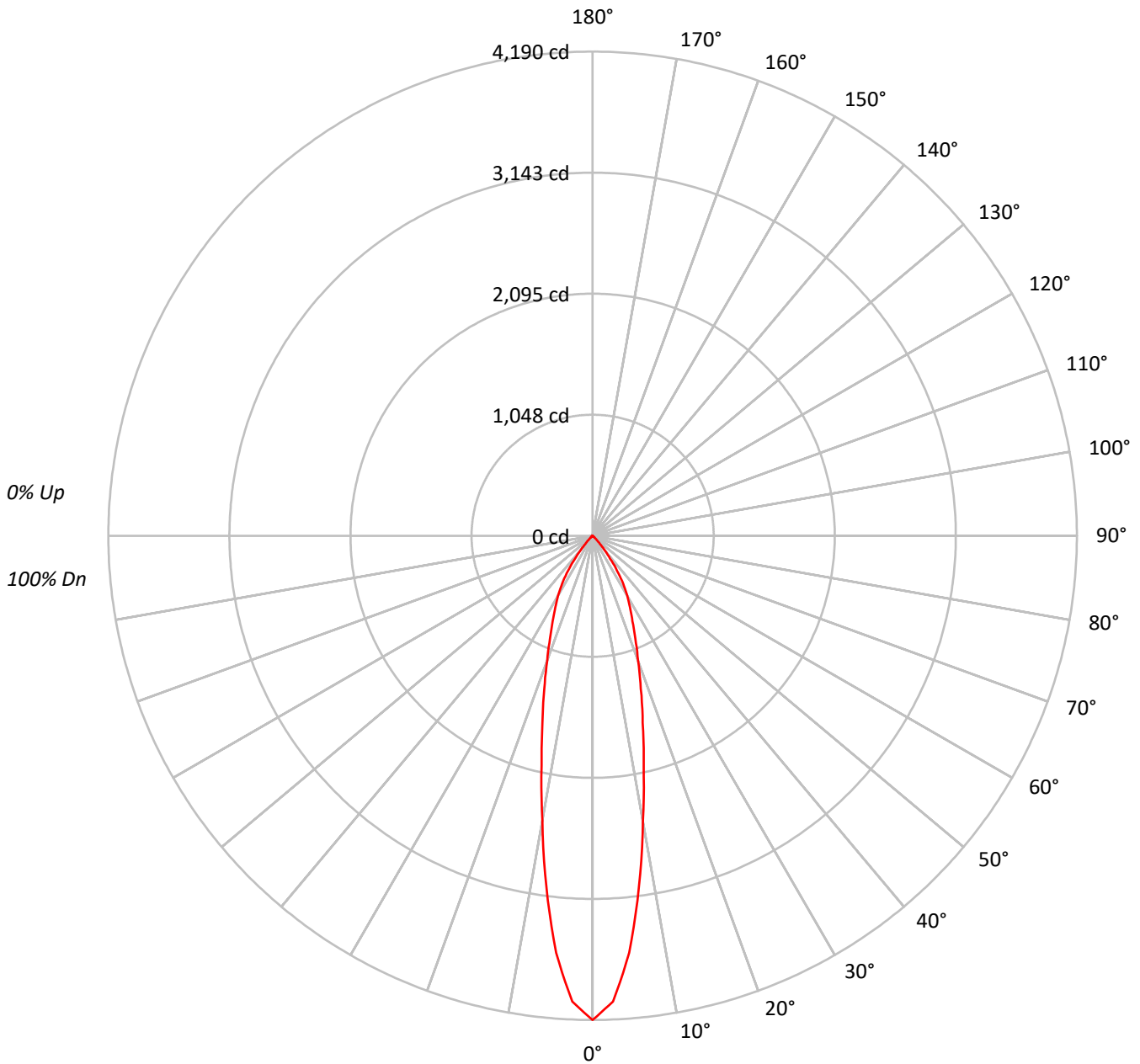
Input Watts (W): 22.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	114	112	110	108	112	110	108	106	106	104	103	102	101	100	98	98	97	95	95	95	95
2	109	105	102	99	107	103	100	97	100	98	95	97	95	93	95	93	91	90	90	90	90
3	105	99	95	91	103	98	94	91	95	92	89	93	90	88	91	88	87	85	85	85	85
4	100	94	89	85	99	93	88	85	91	87	84	89	86	83	87	84	82	81	81	81	81
5	96	89	84	80	95	88	83	80	86	82	79	85	81	78	83	80	78	76	76	76	76
6	92	85	79	76	91	84	79	75	82	78	75	81	77	74	80	77	74	73	73	73	73
7	89	81	75	72	87	80	75	72	79	74	71	78	74	71	77	73	70	69	69	69	69
8	85	77	72	68	84	76	71	68	75	71	68	74	70	68	74	70	67	66	66	66	66
9	82	74	68	65	81	73	68	65	72	68	65	71	67	64	71	67	64	63	63	63	63
10	79	70	65	62	78	70	65	62	69	65	62	69	65	62	68	64	62	60	60	60	60

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	273378
5°	237283
10°	166035
15°	113126
20°	79786
25°	58761
30°	45072
35°	29492
40°	12800
45°	4097
50°	1228
55°	341
60°	261
65°	154
70°	191
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	309.3	21.5
10°-20°	471.7	32.8
20°-30°	380.5	26.5
30°-40°	227.7	15.8
40°-50°	43.6	3.0
50°-60°	3.6	0.2
60°-70°	1.1	0.1
70°-80°	0.1	0.0
80°-90°	0.0	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°	1161.5	80.8
0°-40°	1389.2	96.6
0°-60°	1436.4	99.9
0°-90°	1437.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1437.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4190	
5°	3623	309
15°	1675	472
25°	816	381
35°	370	228
45°	44	44
55°	3	4
65°	1	1
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4190.3
2.5°	4033.9
5°	3623.2
7.5°	3067.3
10°	2506.3
12.5°	2037.1
15°	1674.9
17.5°	1388.3
20°	1149.2
22.5°	963.6
25°	816.3
27.5°	698.2
30°	598.3
32.5°	492.4
35°	370.3
37.5°	249.2
40°	150.3
42.5°	83.7
45°	44.4
47.5°	23.2
50°	12.1
52.5°	4.1
55°	3.0
57.5°	2.0
60°	2.0
62.5°	1.0
65°	1.0
67.5°	1.0
70°	1.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)