

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: P135165

Luminaire Tested: **LD6A10D010TE ERN6A10930 6LN1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P135165
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23370)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6A10D010TE ERN6A10930 6LN1H
Description: PORTFOLIO 6 INCH 50 DEGREE CUTOFF RECESSED DOWNLIGHT
NARROW DISTRIBUTION WITH SEMI-SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 3000K
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 929.9 lumens
Efficiency: N/A
Efficacy: 66.4 lumens/watt
Spacing Criteria (0/90/45): 0.74 / 0.74 / 0.84
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

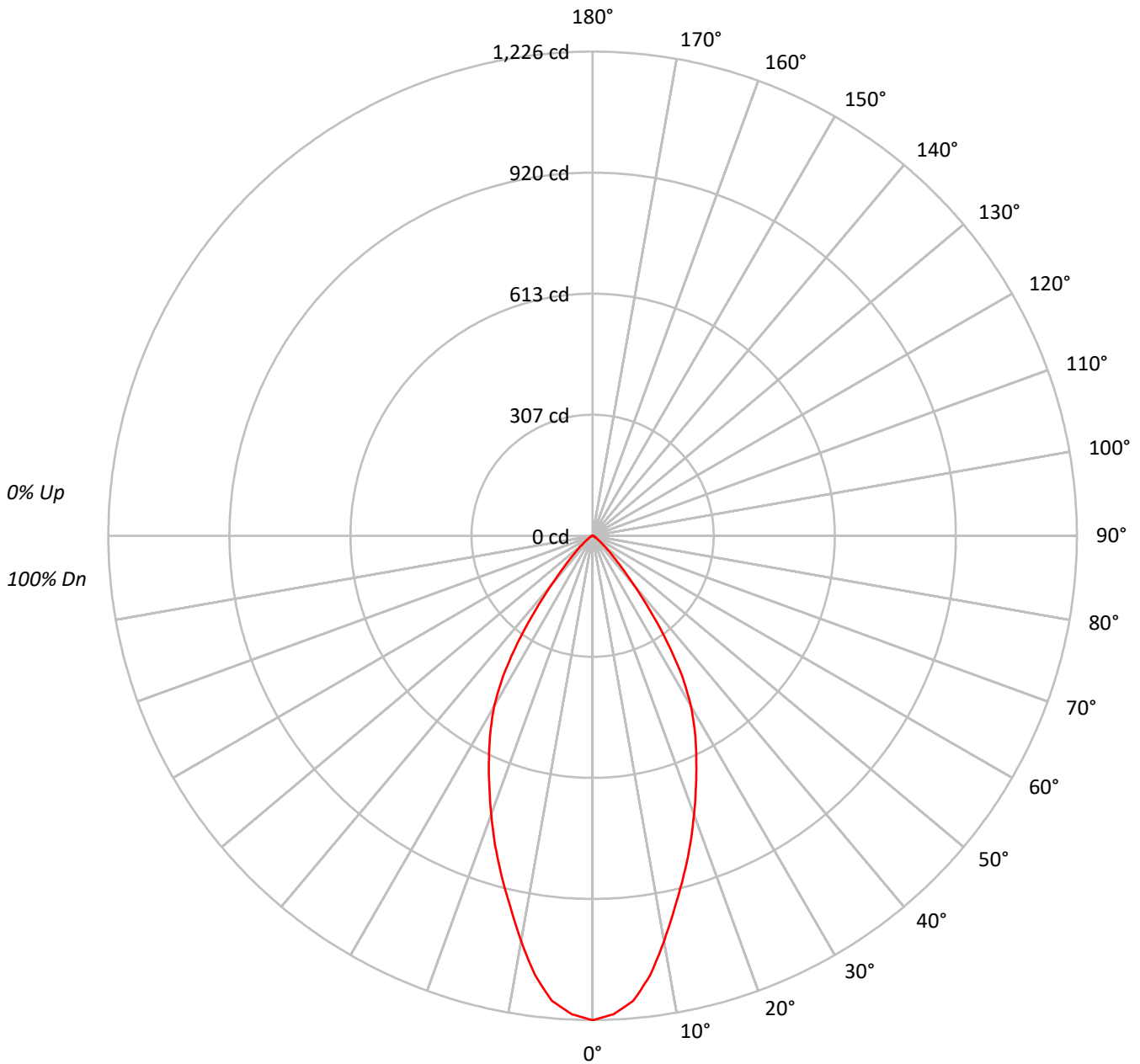
Input Watts (W): 14
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93
2	108	103	99	95	106	101	97	94	98	95	92	95	92	90	92	90	88	87
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	80
4	97	89	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75
5	92	84	78	73	90	83	77	73	81	76	72	79	75	72	78	74	71	70
6	87	78	72	68	86	78	72	68	76	71	67	75	70	67	73	69	66	65
7	83	74	68	63	82	73	67	63	72	67	63	71	66	63	69	65	62	61
8	79	69	63	59	78	69	63	59	68	63	59	67	62	59	66	62	58	57
9	75	66	60	56	74	65	59	56	64	59	55	63	59	55	62	58	55	54
10	72	62	56	52	71	62	56	52	61	56	52	60	55	52	59	55	52	51

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	80018
5°	77402
10°	69010
15°	60153
20°	52092
25°	44688
30°	37516
35°	26330
40°	13703
45°	6523
50°	3420
55°	1854
60°	1279
65°	834
70°	629
75°	555
80°	413
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.2	11.6
10°-20°	248.8	26.8
20°-30°	284.7	30.6
30°-40°	202.9	21.8
40°-50°	61.3	6.6
50°-60°	15.9	1.7
60°-70°	5.9	0.6
70°-80°	2.0	0.2
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°	641.8	69.0
0°-40°	844.7	90.8
0°-60°	921.9	99.1
0°-90°	929.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	929.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1226	
5°	1182	108
15°	891	249
25°	621	285
35°	331	203
45°	71	61
55°	16	16
65°	5	6
75°	2	2
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1226.5
2.5°	1212.4
5°	1181.9
7.5°	1121.1
10°	1041.7
12.5°	962.3
15°	890.6
17.5°	821.0
20°	750.3
22.5°	683.9
25°	620.8
27.5°	561.1
30°	498.0
32.5°	421.9
35°	330.6
37.5°	237.0
40°	160.9
42.5°	106.6
45°	70.7
47.5°	48.9
50°	33.7
52.5°	21.8
55°	16.3
57.5°	11.9
60°	9.8
62.5°	7.6
65°	5.4
67.5°	4.3
70°	3.3
72.5°	2.2
75°	2.2
77.5°	1.1
80°	1.1
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)