

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: P135248

Luminaire Tested: **LD6A30D010TE ERN6A30827 6LN1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P135248
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: LD6A30D010TE ERN6A30827 6LN1H
Description: PORTFOLIO 6 INCH 50 DEGREE CUTOFF RECESSED DOWNLIGHT
NARROW DISTRIBUTION WITH SEMI-SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 2700K
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2325.0 lumens
Efficiency: N/A
Efficacy: 51.2 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

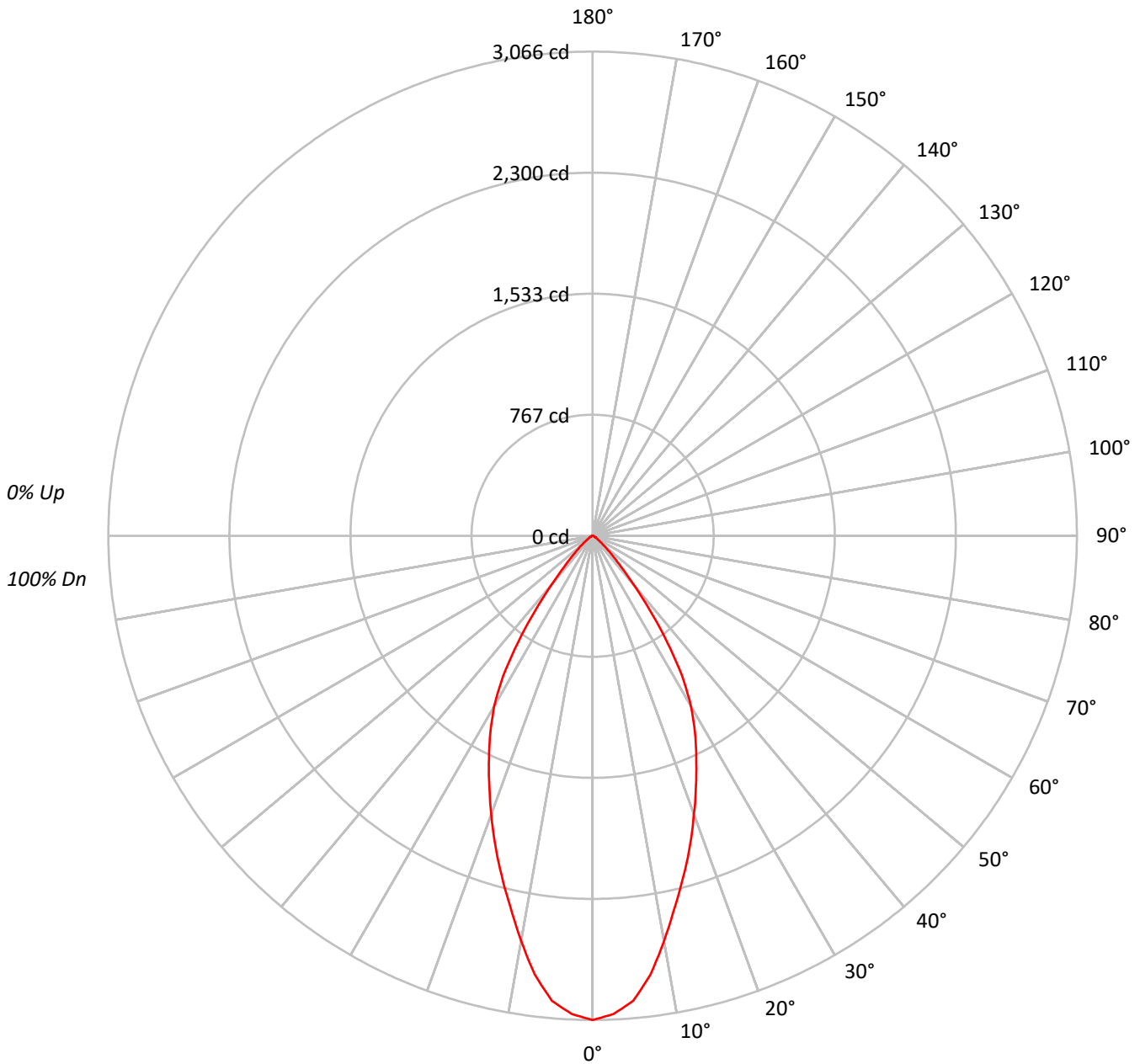
Input Watts (W): 45.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P135248

CATALOG NUMBER: LD6A30D010TE ERN6A30827 6LN1H

Luminous Intensity Polar Plot





TEST NUMBER: P135248

CATALOG NUMBER: LD6A30D010TE ERN6A30827 6LN1H

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			
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°	200060
5°	193529
10°	172534
15°	150382
20°	130232
25°	111742
30°	93798
35°	65818
40°	34262
45°	16303
50°	8556
55°	4641
60°	3197
65°	2099
70°	1564
75°	1361
80°	1014
85°	0



TEST NUMBER: P135248

CATALOG NUMBER: LD6A30D010TE ERN6A30827 6LN1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.6	11.6
10°-20°	622.1	26.8
20°-30°	711.9	30.6
30°-40°	507.2	21.8
40°-50°	153.3	6.6
50°-60°	39.8	1.7
60°-70°	14.7	0.6
70°-80°	5.0	0.2
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°	1604.6	69.0
0°-40°	2111.8	90.8
0°-60°	2304.9	99.1
0°-90°	2325.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2325.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3066	
5°	2955	271
15°	2226	622
25°	1552	712
35°	826	507
45°	177	153
55°	41	40
65°	14	15
75°	5	5
85°	0	0
90°	0	



TEST NUMBER: P135248

CATALOG NUMBER: LD6A30D010TE ERN6A30827 6LN1H

CANDELA DISTRIBUTION (FULL):

	0°
0°	3066.5
2.5°	3031.2
5°	2955.1
7.5°	2802.8
10°	2604.4
12.5°	2405.9
15°	2226.5
17.5°	2052.5
20°	1875.8
22.5°	1710.0
25°	1552.3
27.5°	1402.8
30°	1245.1
32.5°	1054.8
35°	826.4
37.5°	592.6
40°	402.3
42.5°	266.4
45°	176.7
47.5°	122.3
50°	84.3
52.5°	54.4
55°	40.8
57.5°	29.9
60°	24.5
62.5°	19.0
65°	13.6
67.5°	10.9
70°	8.2
72.5°	5.4
75°	5.4
77.5°	2.7
80°	2.7
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)