

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: P135224

Luminaire Tested: **LD6A20D010TE ERN6A20827 6LN1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P135224
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: LD6A20D010TE ERN6A20827 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: 1944.0 lumens
Efficiency: N/A
Efficacy: 59.3 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

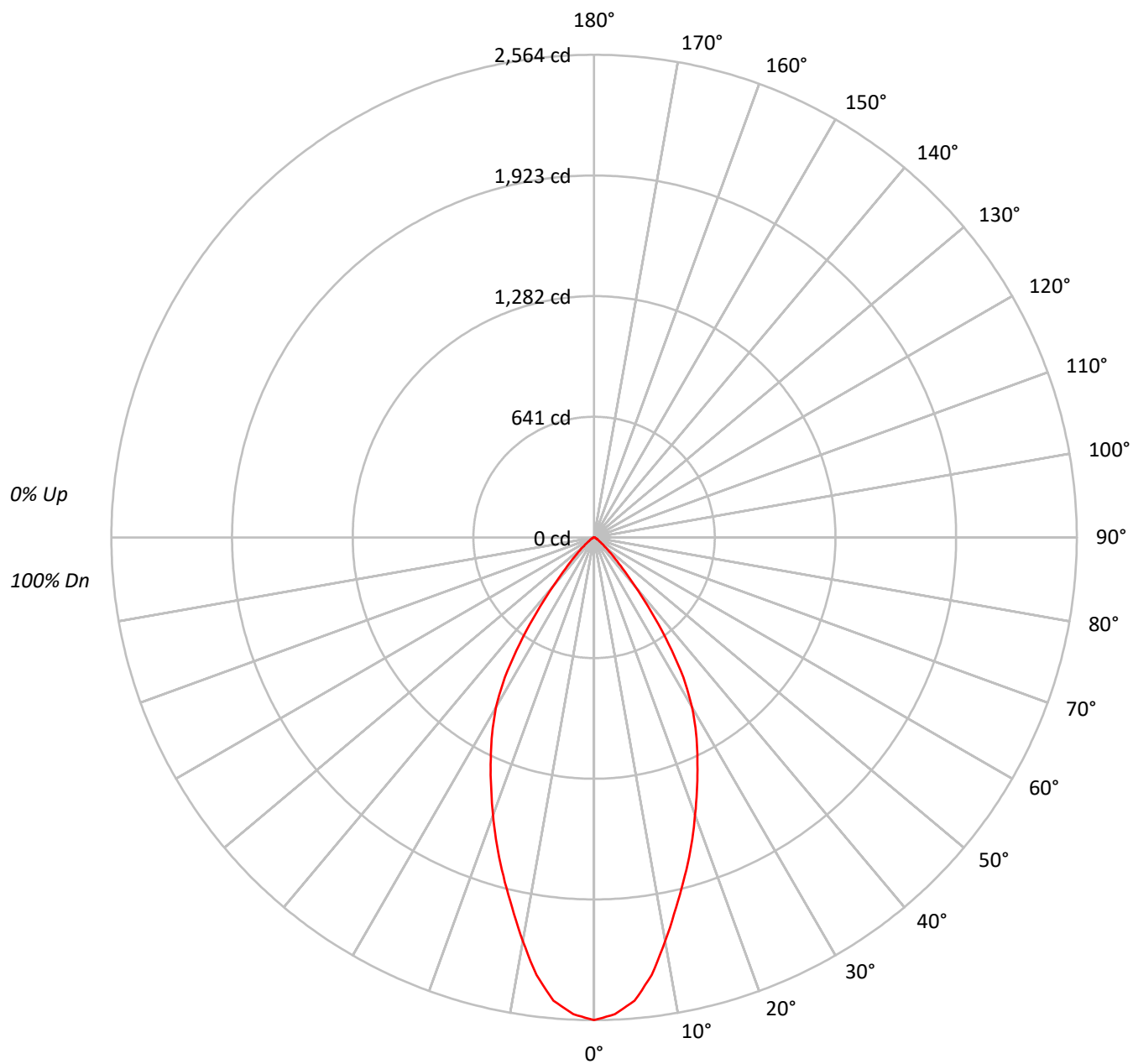
Input Watts (W): 32.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P135224

CATALOG NUMBER: LD6A20D010TE ERN6A20827 6LN1H

Luminous Intensity Polar Plot





TEST NUMBER: P135224

CATALOG NUMBER: LD6A20D010TE ERN6A20827 6LN1H

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	167277
5°	161812
10°	144260
15°	125736
20°	108890
25°	93429
30°	78430
35°	55034
40°	28650
45°	13627
50°	7155
55°	3879
60°	2675
65°	1760
70°	1297
75°	1134
80°	864
85°	0



TEST NUMBER: P135224

CATALOG NUMBER: LD6A20D010TE ERN6A20827 6LN1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.2	11.6
10°-20°	520.2	26.8
20°-30°	595.3	30.6
30°-40°	424.1	21.8
40°-50°	128.2	6.6
50°-60°	33.3	1.7
60°-70°	12.3	0.6
70°-80°	4.2	0.2
80°-90°	0.3	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°	1341.7	69.0
0°-40°	1765.7	90.8
0°-60°	1927.2	99.1
0°-90°	1944.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1944.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2564	
5°	2471	226
15°	1862	520
25°	1298	595
35°	691	424
45°	148	128
55°	34	33
65°	11	12
75°	4	4
85°	0	0
90°	0	



TEST NUMBER: P135224

CATALOG NUMBER: LD6A20D010TE ERN6A20827 6LN1H

CANDELA DISTRIBUTION (FULL):

0°	
0°	2564.0
2.5°	2534.5
5°	2470.8
7.5°	2343.5
10°	2177.6
12.5°	2011.7
15°	1861.6
17.5°	1716.2
20°	1568.4
22.5°	1429.8
25°	1297.9
27.5°	1172.9
30°	1041.1
32.5°	882.0
35°	691.0
37.5°	495.5
40°	336.4
42.5°	222.8
45°	147.7
47.5°	102.3
50°	70.5
52.5°	45.5
55°	34.1
57.5°	25.0
60°	20.5
62.5°	15.9
65°	11.4
67.5°	9.1
70°	6.8
72.5°	4.5
75°	4.5
77.5°	2.3
80°	2.3
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)