

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: P135231

Luminaire Tested: **LD6A20D010TE ERN6A20940 6LN1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P135231
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 ERN6A20940 6LN1H
Description: PORTFOLIO 6 INCH 50 DEGREE CUTOFF RECESSED DOWNLIGHT
NARROW DISTRIBUTION WITH SEMI-SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 4000K
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1964.8 lumens
Efficiency: N/A
Efficacy: 59.9 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

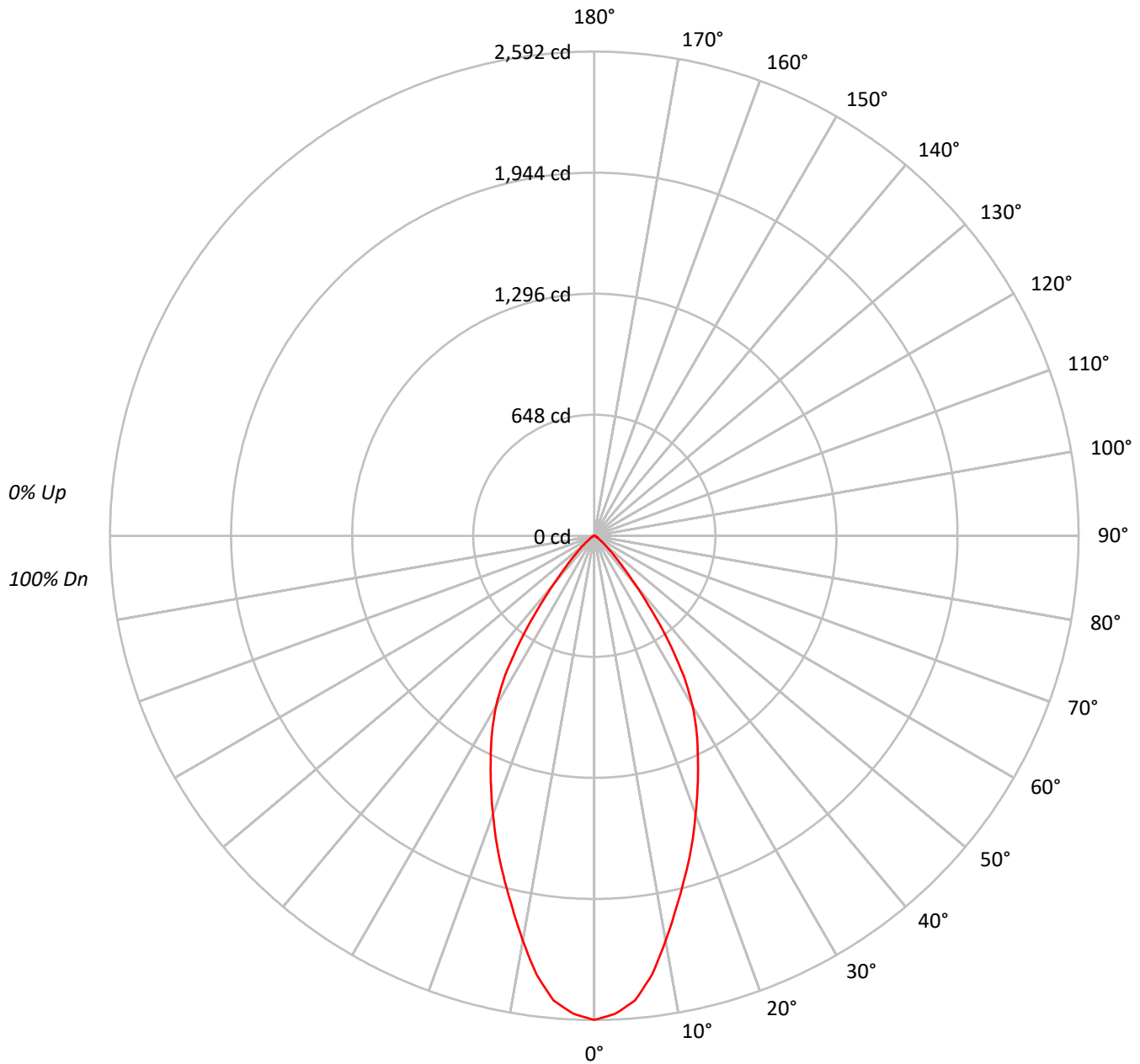
Input Watts (W): 32.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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°	169071
5°	163541
10°	145803
15°	127080
20°	110057
25°	94430
30°	79266
35°	55623
40°	28956
45°	13784
50°	7227
55°	3924
60°	2701
65°	1775
70°	1316
75°	1160
80°	864
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.6	11.6
10°-20°	525.7	26.8
20°-30°	601.6	30.6
30°-40°	428.6	21.8
40°-50°	129.6	6.6
50°-60°	33.6	1.7
60°-70°	12.4	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°	1356.0	69.0
0°-40°	1784.6	90.8
0°-60°	1947.8	99.1
0°-90°	1964.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1964.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2592	
5°	2497	229
15°	1882	526
25°	1312	602
35°	698	429
45°	149	130
55°	34	34
65°	12	12
75°	5	4
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2591.5
2.5°	2561.6
5°	2497.2
7.5°	2368.6
10°	2200.9
12.5°	2033.2
15°	1881.5
17.5°	1734.6
20°	1585.2
22.5°	1445.1
25°	1311.8
27.5°	1185.4
30°	1052.2
32.5°	891.4
35°	698.4
37.5°	500.8
40°	340.0
42.5°	225.2
45°	149.4
47.5°	103.4
50°	71.2
52.5°	45.9
55°	34.5
57.5°	25.3
60°	20.7
62.5°	16.0
65°	11.5
67.5°	9.2
70°	6.9
72.5°	4.6
75°	4.6
77.5°	2.3
80°	2.3
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)