

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: P135167

Luminaire Tested: **LD6A10D010TE ERN6A10940 6LN1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P135167
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 ERN6A10940 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: 974.0 lumens
Efficiency: N/A
Efficacy: 69.6 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

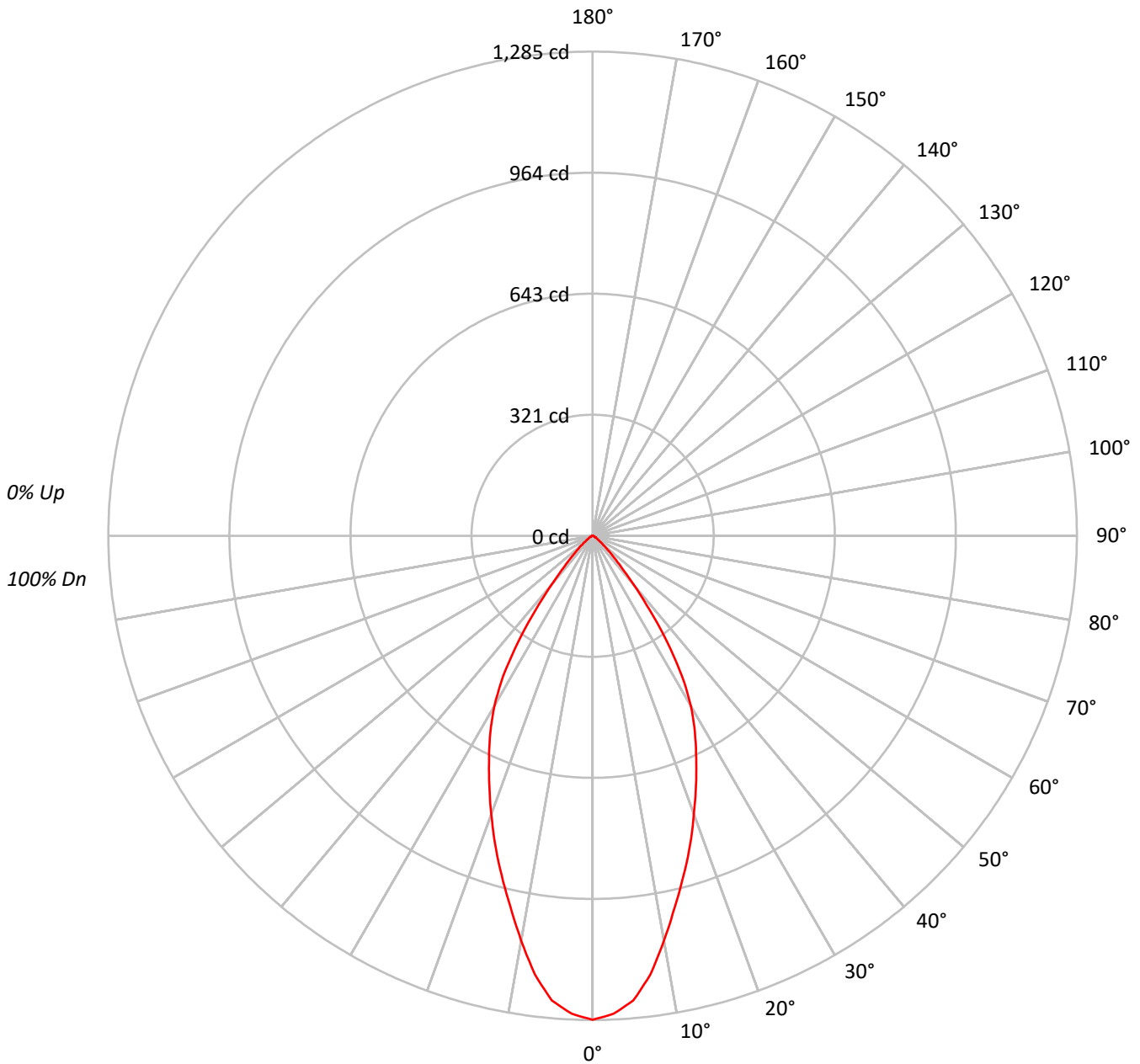
Input Watts (W): 14
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	83808
5°	81070
10°	72276
15°	63003
20°	54556
25°	46812
30°	39294
35°	27573
40°	14350
45°	6828
50°	3583
55°	1945
60°	1344
65°	880
70°	649
75°	580
80°	413
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.3	11.6
10°-20°	260.6	26.8
20°-30°	298.2	30.6
30°-40°	212.5	21.8
40°-50°	64.2	6.6
50°-60°	16.7	1.7
60°-70°	6.2	0.6
70°-80°	2.1	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°	672.2	69.0
0°-40°	884.7	90.8
0°-60°	965.5	99.1
0°-90°	974.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	974.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1285	
5°	1238	113
15°	933	261
25°	650	298
35°	346	212
45°	74	64
55°	17	17
65°	6	6
75°	2	2
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1284.6
2.5°	1269.9
5°	1237.9
7.5°	1174.2
10°	1091.0
12.5°	1007.9
15°	932.8
17.5°	859.9
20°	785.8
22.5°	716.3
25°	650.3
27.5°	587.6
30°	521.6
32.5°	441.9
35°	346.2
37.5°	248.3
40°	168.5
42.5°	111.6
45°	74.0
47.5°	51.2
50°	35.3
52.5°	22.8
55°	17.1
57.5°	12.5
60°	10.3
62.5°	8.0
65°	5.7
67.5°	4.6
70°	3.4
72.5°	2.3
75°	2.3
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)