

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: P135250

Luminaire Tested: **LD6A30D010TE ERN6A30835 6LN1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P135250
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 ERN6A30835 6LN1H
Description: PORTFOLIO 6 INCH 50 DEGREE CUTOFF RECESSED DOWNLIGHT
NARROW DISTRIBUTION WITH SEMI-SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 3500K
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2497.0 lumens
Efficiency: N/A
Efficacy: 55.0 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

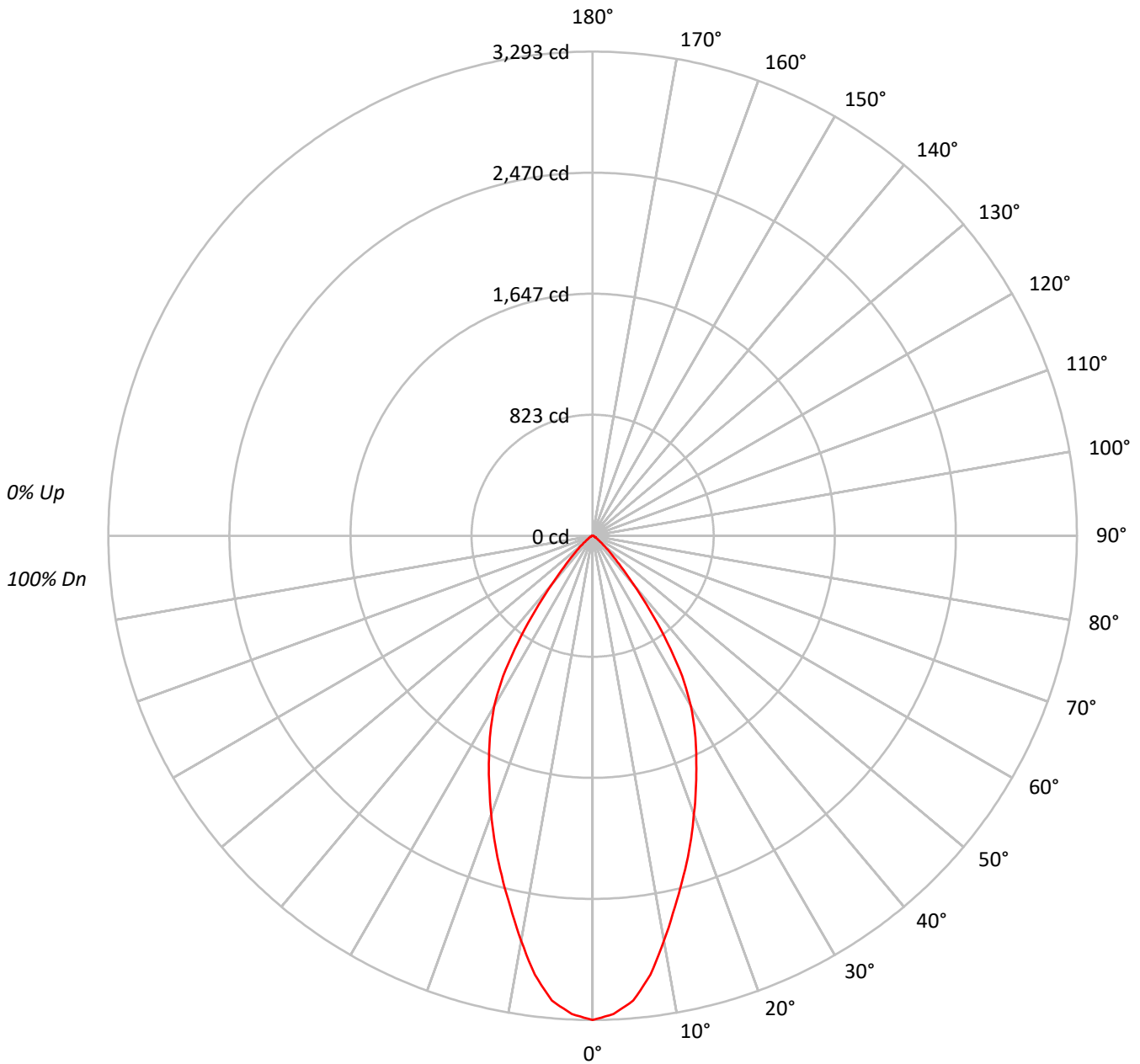
Input Watts (W): 45.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	214863
5°	207845
10°	185300
15°	161507
20°	139869
25°	120006
30°	100736
35°	70692
40°	36800
45°	17512
50°	9185
55°	4982
60°	3432
65°	2254
70°	1679
75°	1462
80°	1090
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.6	11.6
10°-20°	668.1	26.8
20°-30°	764.6	30.6
30°-40°	544.7	21.8
40°-50°	164.7	6.6
50°-60°	42.7	1.7
60°-70°	15.8	0.6
70°-80°	5.4	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°	1723.3	69.0
0°-40°	2268.0	90.8
0°-60°	2475.4	99.1
0°-90°	2497.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2497.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3293	
5°	3174	291
15°	2391	668
25°	1667	765
35°	888	545
45°	190	165
55°	44	43
65°	15	16
75°	6	5
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3293.4
2.5°	3255.4
5°	3173.7
7.5°	3010.2
10°	2797.1
12.5°	2583.9
15°	2391.2
17.5°	2204.4
20°	2014.6
22.5°	1836.5
25°	1667.1
27.5°	1506.6
30°	1337.2
32.5°	1132.8
35°	887.6
37.5°	636.5
40°	432.1
42.5°	286.1
45°	189.8
47.5°	131.4
50°	90.5
52.5°	58.4
55°	43.8
57.5°	32.1
60°	26.3
62.5°	20.4
65°	14.6
67.5°	11.7
70°	8.8
72.5°	5.8
75°	5.8
77.5°	2.9
80°	2.9
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)