

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: P35144

Luminaire Tested: **LD6B15D010 EU6B10208035 6LBCS1MMS**

Test Date: 10/04/16

Test Information

Test Method: LM-41-14
Report Number: P35144
Test Lab: INNOVATION CENTER-P3
Test Date: 10/04/16
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B15D010 EU6B10208035 6LBCS1MMS
Description: PORTFOLIO 6 INCH 80 DEGREE CUTOFF SHALLOW RECESSED DOWNLIGHT
Light Source: (1) CITIZEN 3500K LED, 80CRI
CLU038-1205
Ballast/Driver: (1) EATON ELECTRONIC DRIVER
LD4B15D010

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1546.1 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.27
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

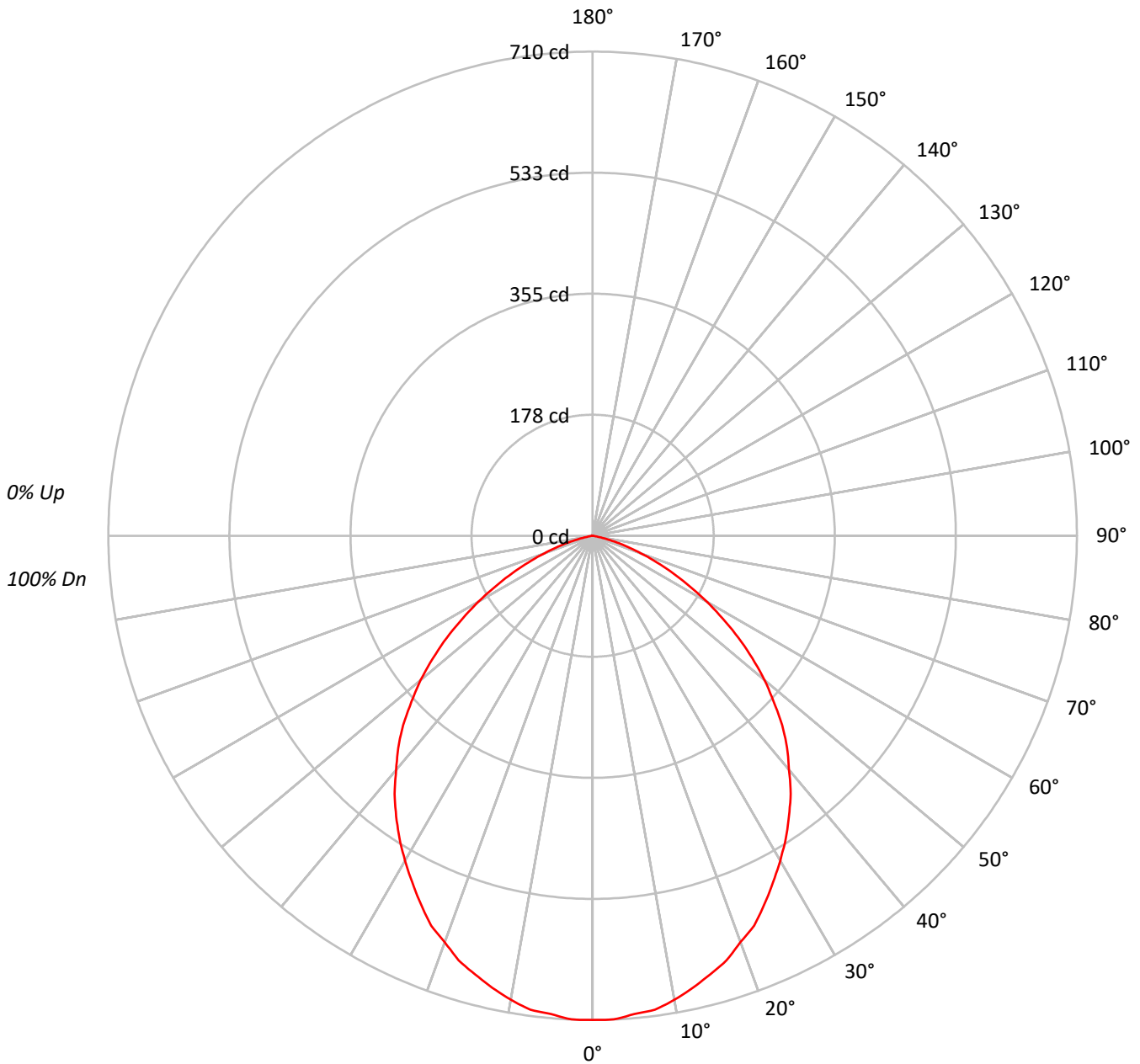
Input Watts (W): 14
Input Voltage (V): 120.0
Input Current (A_{in}): 0.117
Voltage Rise (V): NR
Power Factor: 0.9985
Total Harmonic Distortion (THDi): 7.76%
Frequency (hertz): 60
Stabilization Time: 0.5 HR
Operation Time: 5 HR
Ambient Temperature (°C): 24.3
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				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				100
1	111	107	103	100	108	105	101	98	100	98	95	97	94	92	93	91	90	88				88
2	102	95	89	84	99	93	88	83	90	85	81	86	83	79	83	80	78	76				76
3	94	85	77	72	92	83	76	71	80	74	70	77	73	69	75	71	67	65				65
4	87	76	68	62	84	74	67	61	72	66	61	70	64	60	68	63	59	57				57
5	80	68	60	54	78	67	59	54	65	58	53	63	57	53	61	56	52	50				50
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44				44
7	69	56	48	42	67	56	48	42	54	47	42	53	46	42	51	46	41	40				40
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36				36
9	60	48	40	35	59	47	40	34	46	39	34	45	39	34	44	38	34	32				32
10	57	44	36	31	55	43	36	31	43	36	31	42	35	31	41	35	31	29				29

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	46321
5°	46105
10°	45777
15°	44983
20°	44017
25°	42903
30°	41433
35°	39981
40°	38154
45°	36260
50°	33392
55°	29687
60°	25183
65°	20068
70°	14497
75°	8318
80°	2254
85°	749



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.9	4.3
10°-20°	187.7	12.1
20°-30°	274.2	17.7
30°-40°	313.6	20.3
40°-50°	301.4	19.5
50°-60°	232.8	15.1
60°-70°	129.9	8.4
70°-80°	37.8	2.4
80°-90°	1.6	0.1
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°	528.9	34.2
0°-40°	842.5	54.5
0°-60°	1376.7	89.0
0°-90°	1546.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1546.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	710	
5°	704	67
15°	666	188
25°	596	274
35°	502	314
45°	393	301
55°	261	233
65°	130	130
75°	33	38
85°	1	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	710
2.5°	710
5°	704
7.5°	701
10°	691
12.5°	679
15°	666
17.5°	653
20°	634
22.5°	619
25°	596
27.5°	573
30°	550
32.5°	527
35°	502
37.5°	477
40°	448
42.5°	422
45°	393
47.5°	360
50°	329
52.5°	295
55°	261
57.5°	226
60°	193
62.5°	160
65°	130
67.5°	102
70°	76
72.5°	53
75°	33
77.5°	17
80°	6
82.5°	2
85°	1
87.5°	0
90°	0



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— 0°-180°







(END OF REPORT)