

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: P35087

Luminaire Tested: **LD4B15D010 EU4B10208035 4LBSWMH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P35087
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD4B15D010 EU4B10208035 4LBSWMH1
Description: PORTFOLIO 4 INCH SHALLOW RECESSED DOWNLIGHT
SHALLOW DISTRIBUTION WITH WARM HAZE TRIM
WATTAGE D010TR-14.39W DE010-14.29W D5LT-14.34W DMX-14.46W DL2-15.8W
DL3-15.28W DLE-15.432W
Light Source: HIGH LUMEN LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1525.7 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Spacing Criteria (0/90/45): 0.99 / 0.99 / 1.08
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

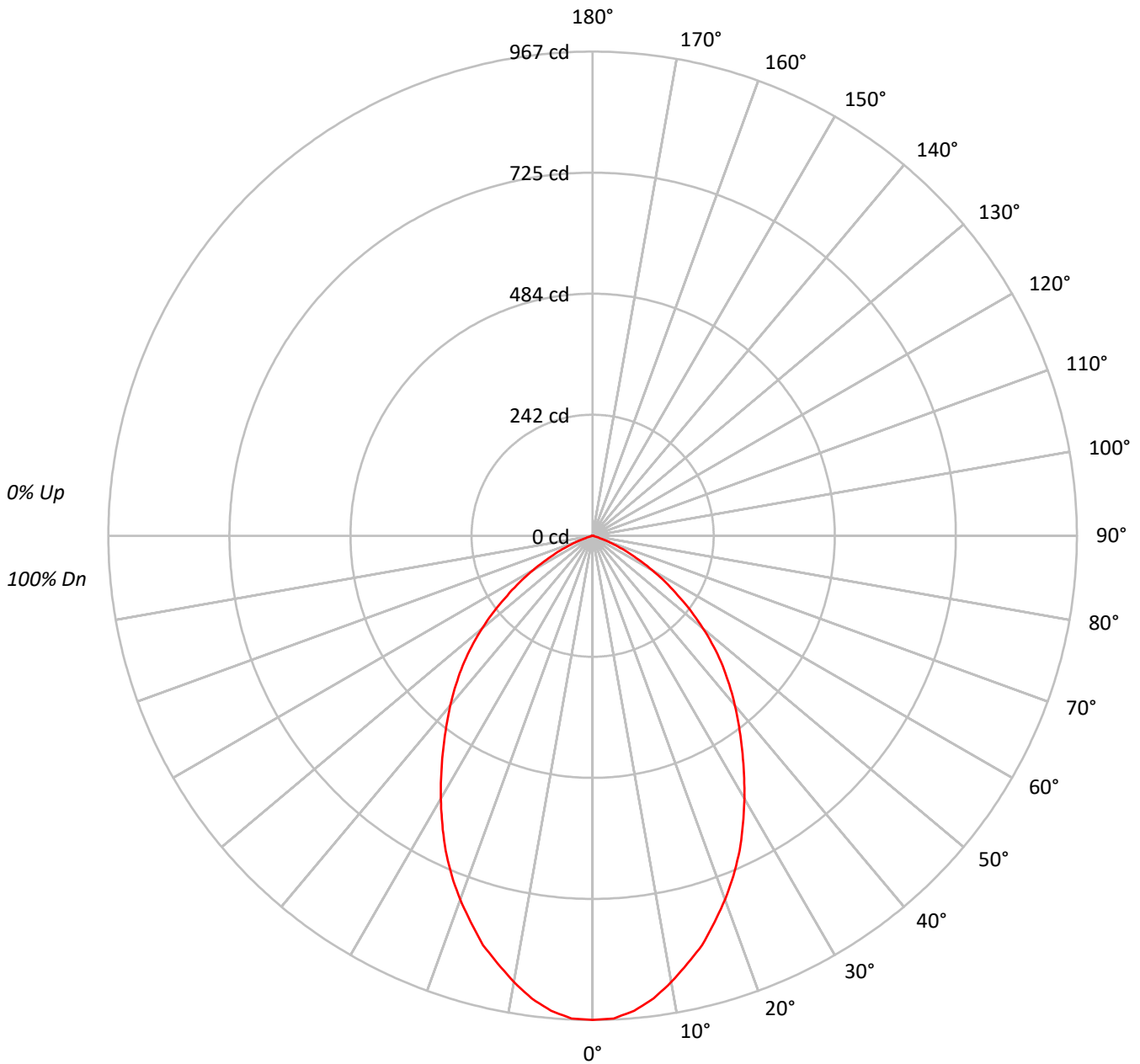
Input Watts (W): 14
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P35087

CATALOG NUMBER: LD4B15D010 EU4B10208035 4LBSWMH1

Luminous Intensity Polar Plot





TEST NUMBER: P35087

CATALOG NUMBER: LD4B15D010 EU4B10208035 4LBSWMH1

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	112	108	105	102	109	106	103	101	102	100	97	98	96	94	95	93	92	90			
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79			
3	96	88	82	76	94	87	81	76	84	79	74	81	77	73	79	75	72	70			
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62			
5	83	73	65	59	82	72	64	59	70	63	59	68	62	58	66	61	57	56			
6	78	66	59	53	76	65	58	53	64	57	53	62	57	52	61	56	52	50			
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45			
8	68	56	49	44	67	56	48	43	54	48	43	53	47	43	52	47	43	41			
9	64	52	45	40	63	52	45	40	50	44	40	49	44	39	49	43	39	38			
10	60	48	41	37	59	48	41	37	47	41	36	46	40	36	45	40	36	35			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	119275
5°	117874
10°	113350
15°	108031
20°	101465
25°	94451
30°	86311
35°	78300
40°	71169
45°	64018
50°	55265
55°	44730
60°	33797
65°	22181
70°	10459
75°	1906
80°	710
85°	0



TEST NUMBER: P35087

CATALOG NUMBER: LD4B15D010 EU4B10208035 4LBSWMH1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.4	5.9
10°-20°	236.8	15.5
20°-30°	318.1	20.8
30°-40°	325.6	21.3
40°-50°	281.8	18.5
50°-60°	187.4	12.3
60°-70°	77.0	5.0
70°-80°	9.2	0.6
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°	644.3	42.2
0°-40°	969.9	63.6
0°-60°	1439.2	94.3
0°-90°	1525.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1525.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	967	
5°	952	89
15°	846	237
25°	694	318
35°	520	326
45°	367	282
55°	208	187
65°	76	77
75°	4	9
85°	0	0
90°	0	



TEST NUMBER: P35087

CATALOG NUMBER: LD4B15D010 EU4B10208035 4LBSWMH1

CANDELA DISTRIBUTION (FULL):

	0°
0°	967
2.5°	965
5°	952
7.5°	932
10°	905
12.5°	875
15°	846
17.5°	809
20°	773
22.5°	735
25°	694
27.5°	650
30°	606
32.5°	562
35°	520
37.5°	480
40°	442
42.5°	404
45°	367
47.5°	328
50°	288
52.5°	248
55°	208
57.5°	173
60°	137
62.5°	104
65°	76
67.5°	50
70°	29
72.5°	14
75°	4
77.5°	2
80°	1
82.5°	1
85°	0
87.5°	0
90°	0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)