

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: P206117

Luminaire Tested: **LD4B15D010 EU4B10209727 4LBSMW1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P206117
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35319)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD4B15D010 EU4B10209727 4LBSMW1
Description: PORTFOLIO 4 INCH SHALLOW RECESSED DOWNLIGHT
SHALLOW DISTRIBUTION WITH MATTE WHITE 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: 1093.5 lumens
Efficiency: N/A
Efficacy: 76.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.34
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

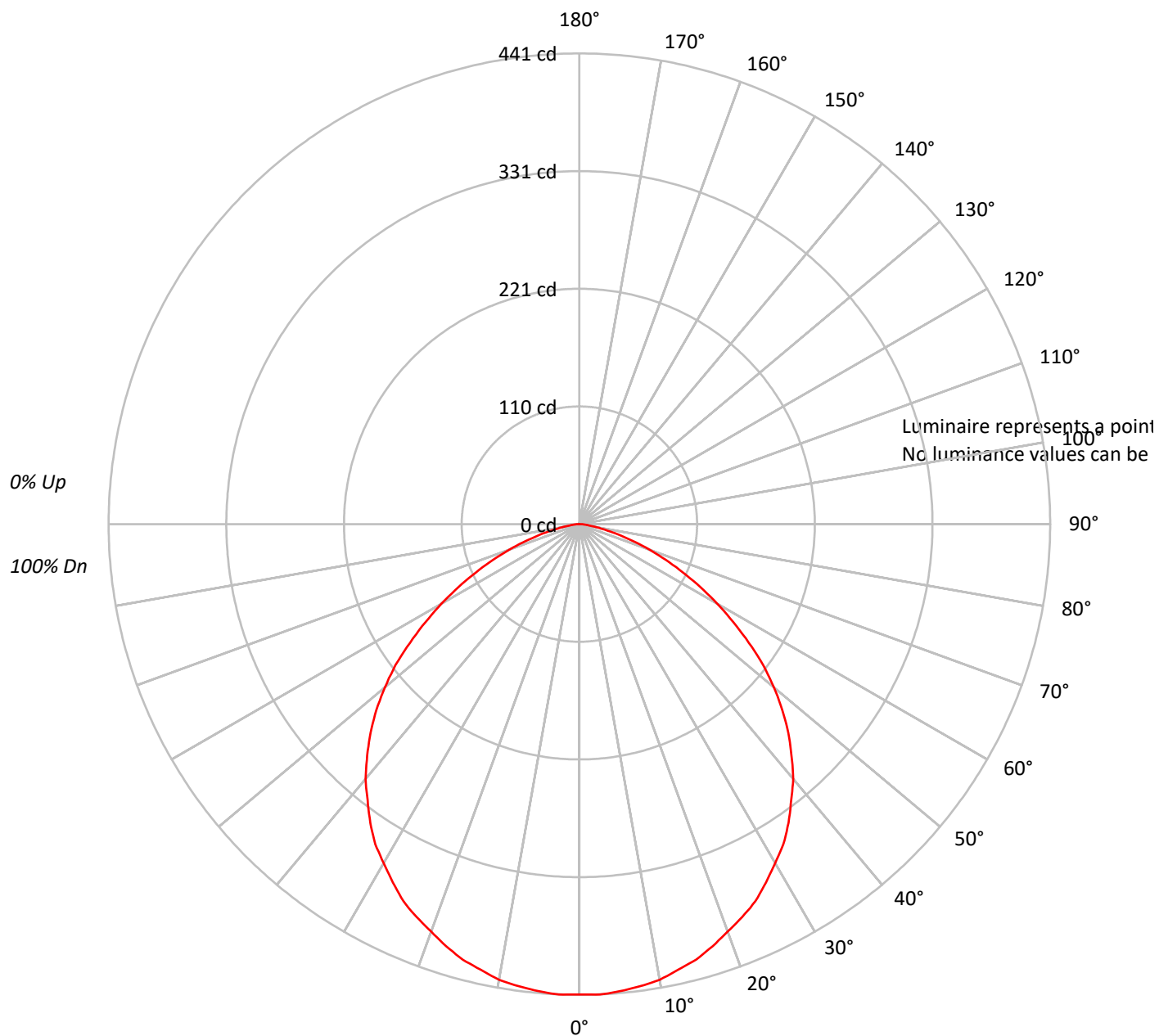
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P206117

CATALOG NUMBER: LD4B15D010 EU4B10209727 4LBSMW1

Luminous Intensity Polar Plot





TEST NUMBER: P206117

CATALOG NUMBER: LD4B15D010 EU4B10209727 4LBSMW1

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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86		
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74		
3	93	83	75	69	90	81	74	69	78	72	67	76	70	66	73	69	65	63		
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	66	61	56	54		
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	49	47		
6	73	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42		
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	43	39	37		
8	63	50	41	36	61	49	41	36	48	41	35	46	40	35	45	39	35	33		
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30		
10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29	27		

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P206117

CATALOG NUMBER: LD4B15D010 EU4B10209727 4LBSMW1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.7	3.8
10°-20°	119.0	10.9
20°-30°	179.2	16.4
30°-40°	213.2	19.5
40°-50°	212.9	19.5
50°-60°	173.1	15.8
60°-70°	106.5	9.7
70°-80°	41.3	3.8
80°-90°	6.6	0.6
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°	339.9	31.1
0°-40°	553.2	50.6
0°-60°	939.2	85.9
0°-90°	1093.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1093.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	441	
5°	439	42
15°	422	119
25°	390	179
35°	342	213
45°	277	213
55°	194	173
65°	107	106
75°	38	41
85°	5	7
90°	0	



TEST NUMBER: P206117

CATALOG NUMBER: LD4B15D010 EU4B10209727 4LBSMW1

CANDELA DISTRIBUTION (FULL):

0°	
0°	440.6
2.5°	441.2
5°	439.3
7.5°	436.7
10°	433.5
12.5°	427.6
15°	422.4
17.5°	414.7
20°	406.2
22.5°	398.5
25°	390.0
27.5°	378.4
30°	366.7
32.5°	355.7
35°	341.5
37.5°	325.9
40°	311.6
42.5°	294.2
45°	276.7
47.5°	257.9
50°	237.8
52.5°	217.1
55°	193.7
57.5°	171.0
60°	149.0
62.5°	127.6
65°	106.9
67.5°	87.5
70°	69.3
72.5°	52.5
75°	37.6
77.5°	24.6
80°	14.9
82.5°	9.1
85°	5.2
87.5°	2.6
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)