

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: P207239

Luminaire Tested: **LD4B10D010 EU4B10209727 4LBMWH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P207239
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: LD4B10D010 EU4B10209727 4LBMWH1
Description: PORTFOLIO 4 INCH 50 DEGREE CUTOFF RECESSED DOWNLIGHT
MEDIUM DISTRIBUTION WITH WHEAT TRIM
WATTAGE D010TR-10.05W DE010-10.58W D5LT-10.2W DMX-10.6W DL2-11.8W
DL3-11.1W DLE-11.39W
Light Source: HIGH LUMEN LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 588.8 lumens
Efficiency: N/A
Efficacy: 59.5 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.87
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

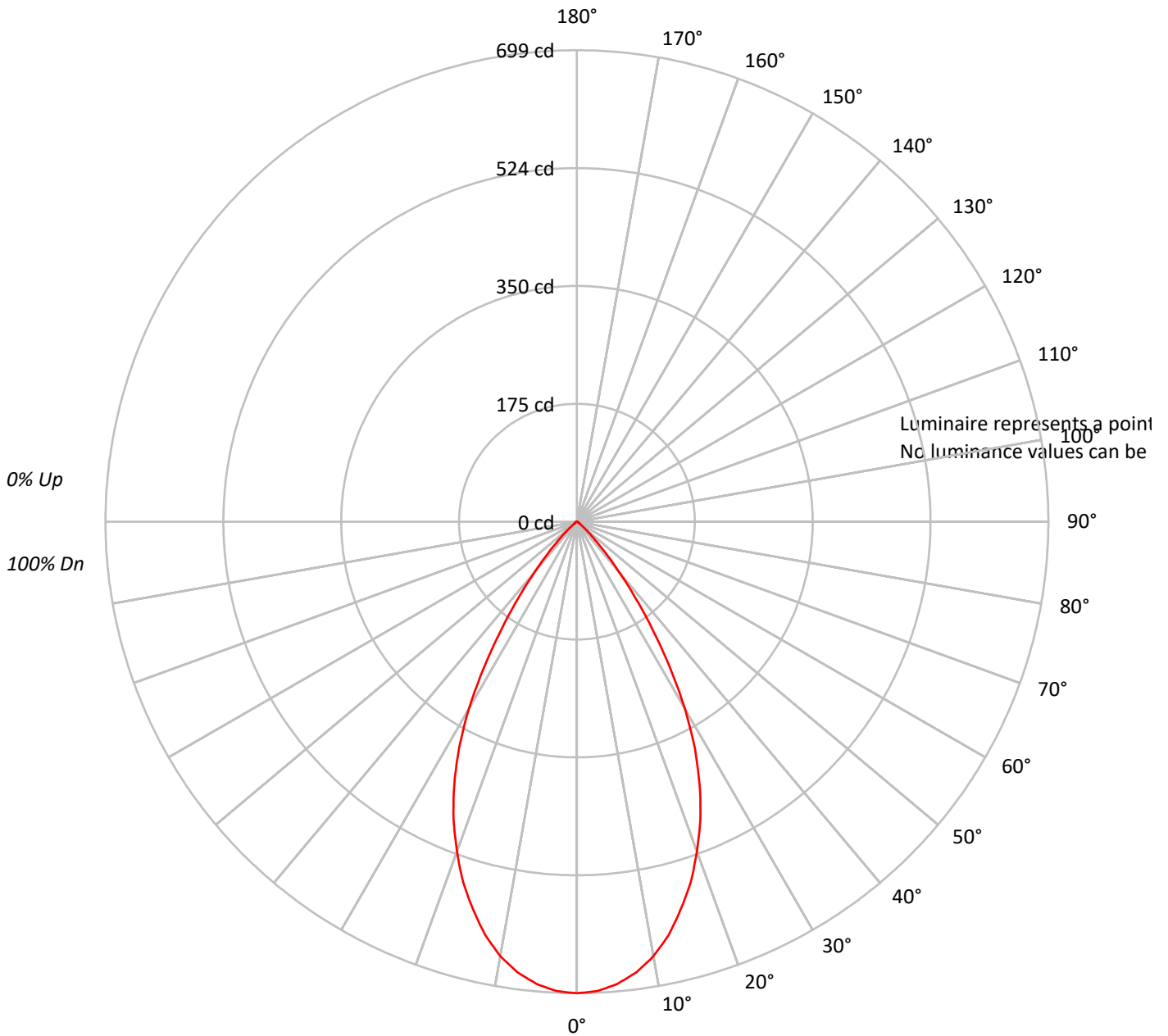
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P207239

CATALOG NUMBER: LD4B10D010 EU4B10209727 4LBMWH1

Luminous Intensity Polar Plot





TEST NUMBER: P207239

CATALOG NUMBER: LD4B10D010 EU4B10209727 4LBMWH1

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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	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	100	100	100	100	100	100	100																			
	1	114	111	108	106	111	109	106	105	105	103	101	101	100	98	98	96	95	94	94	94	94	94	94	94	94	94																			
	2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87	87	87	87	87	87	87	87	87																			
	3	103	96	91	88	101	95	90	87	92	89	85	90	87	84	88	85	83	81	81	81	81	81	81	81	81	81																			
	4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	77	76	76	76	76	76	76	76	76	76																			
	5	93	84	79	74	91	84	78	74	82	77	73	80	76	73	79	75	72	71	71	71	71	71	71	71	71	71																			
	6	88	79	73	69	87	79	73	69	77	72	68	76	71	68	74	71	68	66	66	66	66	66	66	66	66	66																			
	7	84	75	69	65	82	74	68	64	73	68	64	72	67	64	70	66	63	62	62	62	62	62	62	62	62	62																			
	8	80	70	64	60	79	70	64	60	69	64	60	68	63	60	67	63	59	58	58	58	58	58	58	58	58	58																			
	9	76	66	61	57	75	66	60	57	65	60	56	64	60	56	63	59	56	55	55	55	55	55	55	55	55	55																			
	10	73	63	57	53	72	62	57	53	62	57	53	61	56	53	60	56	53	52	52	52	52	52	52	52	52	52																			

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P207239

CATALOG NUMBER: LD4B10D010 EU4B10209727 4LBMWH1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.6	11.0
10°-20°	166.1	28.2
20°-30°	194.8	33.1
30°-40°	123.3	20.9
40°-50°	33.0	5.6
50°-60°	4.6	0.8
60°-70°	1.7	0.3
70°-80°	0.6	0.1
80°-90°	0.0	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°	425.5	72.3
0°-40°	548.8	93.2
0°-60°	586.5	99.6
0°-90°	588.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	588.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	699	
5°	688	65
15°	595	166
25°	430	195
35°	196	123
45°	37	33
55°	4	5
65°	2	2
75°	1	1
85°	0	0
90°	0	



TEST NUMBER: P207239

CATALOG NUMBER: LD4B10D010 EU4B10209727 4LBMWH1

CANDELA DISTRIBUTION (FULL):

	0°
0°	699.2
2.5°	696.6
5°	687.9
7.5°	674.0
10°	654.0
12.5°	627.9
15°	594.9
17.5°	560.9
20°	520.1
22.5°	478.3
25°	430.5
27.5°	378.3
30°	320.0
32.5°	256.6
35°	195.7
37.5°	141.8
40°	97.4
42.5°	62.6
45°	37.4
47.5°	20.9
50°	11.3
52.5°	6.1
55°	4.3
57.5°	3.5
60°	2.6
62.5°	2.6
65°	1.7
67.5°	0.9
70°	0.9
72.5°	0.9
75°	0.9
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)