

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: P207764

Luminaire Tested: **LD4B15D010 EU4B10209035 4LBNGPH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P207764
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 EU4B10209035 4LBNGPH1
Description: PORTFOLIO 4 INCH 50 DEGREE CUTOFF RECESSED DOWNLIGHT
NARROW DISTRIBUTION WITH GRAPHITE 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: 606.7 lumens
Efficiency: N/A
Efficacy: 42.4 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.88
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

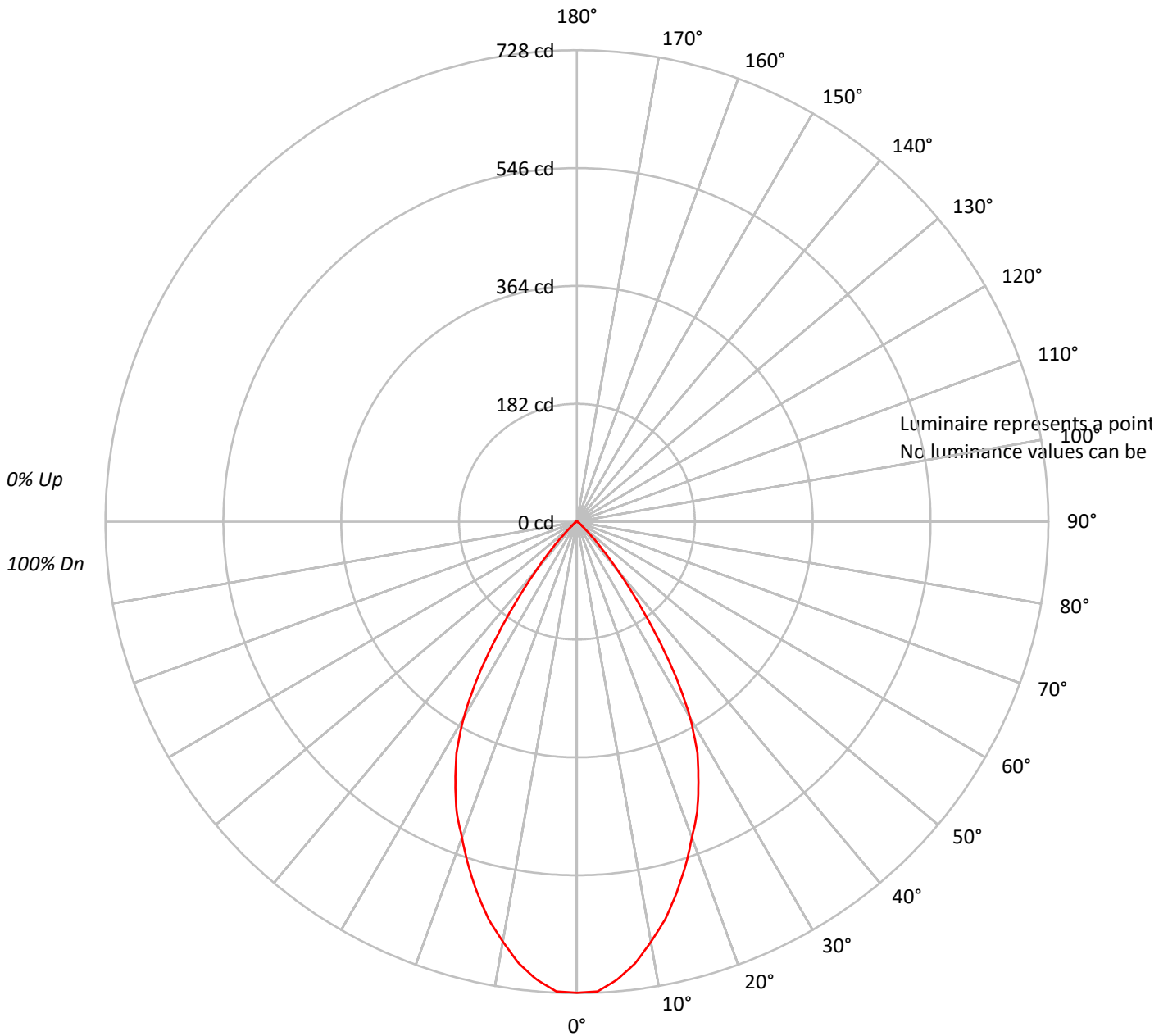
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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	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	100	100																	
	1	114	111	108	106	111	109	106	104	105	103	101	101	100	98	97	96	95	94	94	94	94	94	94	94	94	94	94	94																	
	2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	92	91	89	87	87	87	87	87	87	87	87	87	87	87																	
	3	103	96	91	87	101	95	90	87	92	88	85	90	87	84	88	85	83	81	81	81	81	81	81	81	81	81	81	81																	
	4	97	90	84	80	96	89	84	80	87	82	79	85	81	78	83	80	77	76	76	76	76	76	76	76	76	76	76	76																	
	5	93	84	78	74	91	83	78	74	82	77	73	80	76	73	78	75	72	70	70	70	70	70	70	70	70	70	70	70																	
	6	88	79	73	69	86	78	73	69	77	72	68	75	71	68	74	70	67	66	66	66	66	66	66	66	66	66	66	66																	
	7	84	74	68	64	82	74	68	64	72	67	64	71	67	63	70	66	63	62	62	62	62	62	62	62	62	62	62	62																	
	8	80	70	64	60	78	70	64	60	68	63	60	67	63	59	66	62	59	58	58	58	58	58	58	58	58	58	58	58																	
	9	76	66	60	56	75	66	60	56	65	60	56	64	59	56	63	59	56	54	54	54	54	54	54	54	54	54	54	54																	
	10	72	63	57	53	71	62	57	53	61	56	53	61	56	53	60	56	52	51	51	51	51	51	51	51	51	51	51	51																	

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.2	10.9
10°-20°	165.8	27.3
20°-30°	202.1	33.3
30°-40°	133.3	22.0
40°-50°	30.7	5.1
50°-60°	5.9	1.0
60°-70°	2.2	0.4
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°	434.1	71.5
0°-40°	567.4	93.5
0°-60°	604.0	99.5
0°-90°	606.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	606.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	728	
5°	710	66
15°	594	166
25°	444	202
35°	213	133
45°	34	31
55°	6	6
65°	2	2
75°	0	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	727.6
2.5°	726.1
5°	710.0
7.5°	687.9
10°	658.5
12.5°	629.1
15°	593.8
17.5°	557.1
20°	518.9
22.5°	485.1
25°	443.9
27.5°	402.8
30°	349.8
32.5°	285.2
35°	213.1
37.5°	148.5
40°	95.5
42.5°	58.8
45°	33.8
47.5°	17.6
50°	10.3
52.5°	8.8
55°	5.9
57.5°	4.4
60°	4.4
62.5°	2.9
65°	1.5
67.5°	1.5
70°	1.5
72.5°	1.5
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)