

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: P207753

Luminaire Tested: **LD4B10D010 EU4B10209050 4LBNGPH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P207753
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 EU4B10209050 4LBNGPH1
Description: PORTFOLIO 4 INCH 50 DEGREE CUTOFF RECESSED DOWNLIGHT
NARROW DISTRIBUTION WITH GRAPHITE HAZE 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: 438.2 lumens
Efficiency: N/A
Efficacy: 44.3 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

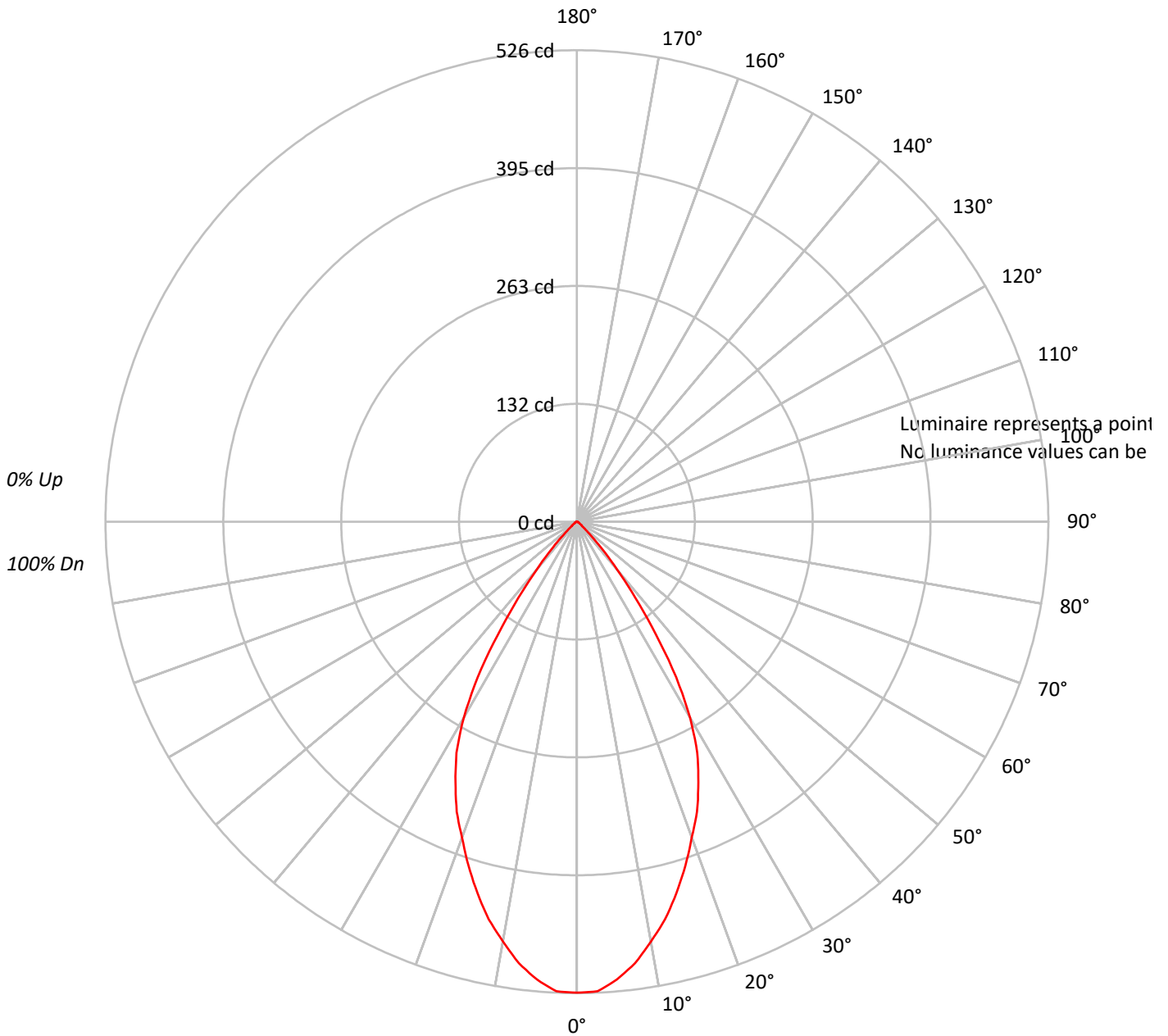
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.8	10.9
10°-20°	119.8	27.3
20°-30°	146.0	33.3
30°-40°	96.3	22.0
40°-50°	22.2	5.1
50°-60°	4.2	1.0
60°-70°	1.6	0.4
70°-80°	0.4	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°	313.5	71.5
0°-40°	409.8	93.5
0°-60°	436.2	99.5
0°-90°	438.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	438.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	526	
5°	513	48
15°	429	120
25°	321	146
35°	154	96
45°	24	22
55°	4	4
65°	1	2
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	525.5
2.5°	524.5
5°	512.8
7.5°	496.9
10°	475.6
12.5°	454.4
15°	428.9
17.5°	402.4
20°	374.8
22.5°	350.3
25°	320.6
27.5°	290.9
30°	252.7
32.5°	206.0
35°	153.9
37.5°	107.2
40°	69.0
42.5°	42.5
45°	24.4
47.5°	12.7
50°	7.4
52.5°	6.4
55°	4.2
57.5°	3.2
60°	3.2
62.5°	2.1
65°	1.1
67.5°	1.1
70°	1.1
72.5°	1.1
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)