

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: P208263

Luminaire Tested: **LD4B10D010 EU4B10209040 4LBNI1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P208263
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 EU4B10209040 4LBNI1
Description: PORTFOLIO 4 INCH 50 DEGREE CUTOFF RECESSED DOWNLIGHT
NARROW DISTRIBUTION WITH SPECULAR CLEAR 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: 685.7 lumens
Efficiency: N/A
Efficacy: 69.3 lumens/watt
Spacing Criteria (0/90/45): 0.48 / 0.48 / 0.54
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

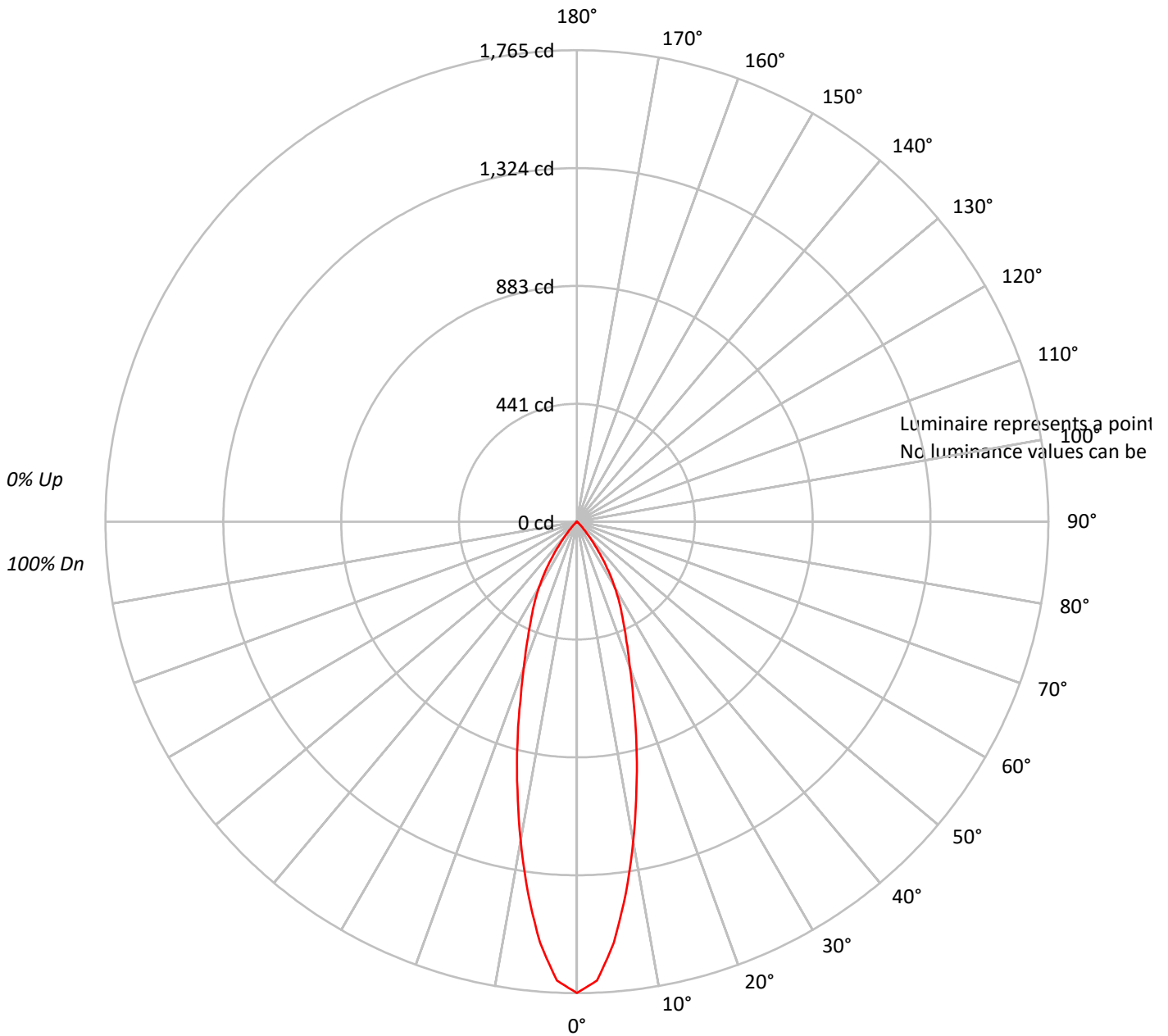
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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									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	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	99	98	97	95	95	93	92	90	90	90	90													
	1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95	95	93	92	90	89	87	85	85	83	82	81	81	81													
	2	109	105	102	99	107	103	100	98	100	98	95	97	95	93	95	93	92	90	90	88	87	85	84	82	80	77	74	73	73	73	73													
	3	105	99	95	92	103	98	94	91	95	92	89	93	90	88	91	89	87	85	85	83	82	80	78	77	75	73	71	70	70	70	70													
	4	101	94	89	86	99	93	88	85	91	87	84	89	86	83	87	84	82	80	77	74	73	71	69	67	66	66	64	64	64	64	64													
	5	96	89	84	80	95	88	84	80	87	82	79	85	81	79	83	80	78	77	75	73	71	69	67	66	64	63	63	63	63	63	63													
	6	92	85	80	76	91	84	79	76	83	78	75	81	78	75	80	77	74	73	71	69	67	66	64	63	63	63	63	63	63	63	63	63												
	7	89	81	76	72	88	80	75	72	79	75	71	78	74	71	77	73	71	69	67	66	64	63	63	63	63	63	63	63	63	63	63	63	63											
	8	85	77	72	68	84	77	72	68	76	71	68	75	71	68	74	70	67	66	64	63	63	63	63	63	63	63	63	63	63	63	63	63	63											
	9	82	74	69	65	81	73	68	65	72	68	65	72	68	65	71	67	64	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63											
	10	79	71	66	62	78	70	65	62	69	65	62	69	65	62	68	64	62	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61											

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.1	20.3
10°-20°	238.1	34.7
20°-30°	189.2	27.6
30°-40°	100.1	14.6
40°-50°	17.3	2.5
50°-60°	1.3	0.2
60°-70°	0.7	0.1
70°-80°	0.0	0.0
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°	566.3	82.6
0°-40°	666.5	97.2
0°-60°	685.0	99.9
0°-90°	685.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	685.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1765	
5°	1582	139
15°	861	238
25°	408	189
35°	158	100
45°	18	17
55°	1	1
65°	1	1
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1764.6
2.5°	1719.2
5°	1581.9
7.5°	1402.4
10°	1212.3
12.5°	1028.5
15°	860.6
17.5°	704.3
20°	579.7
22.5°	484.7
25°	407.6
27.5°	345.3
30°	283.0
32.5°	219.6
35°	158.4
37.5°	104.5
40°	62.3
42.5°	35.9
45°	18.0
47.5°	6.3
50°	2.1
52.5°	2.1
55°	1.1
57.5°	1.1
60°	1.1
62.5°	1.1
65°	1.1
67.5°	0.0
70°	0.0
72.5°	0.0
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)