

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: P206519

Luminaire Tested: **LD4B10D010 EU4B10209730 4LBCSMMS1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P206519
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 EU4B10209730 4LBCSMMS1
Description: PORTFOLIO 4 INCH SHALLOW RECESSED DOWNLIGHT
SHALLOW DISTRIBUTION WITH CAST MATTE BLACK 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: 706.5 lumens
Efficiency: N/A
Efficacy: 71.4 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.27
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

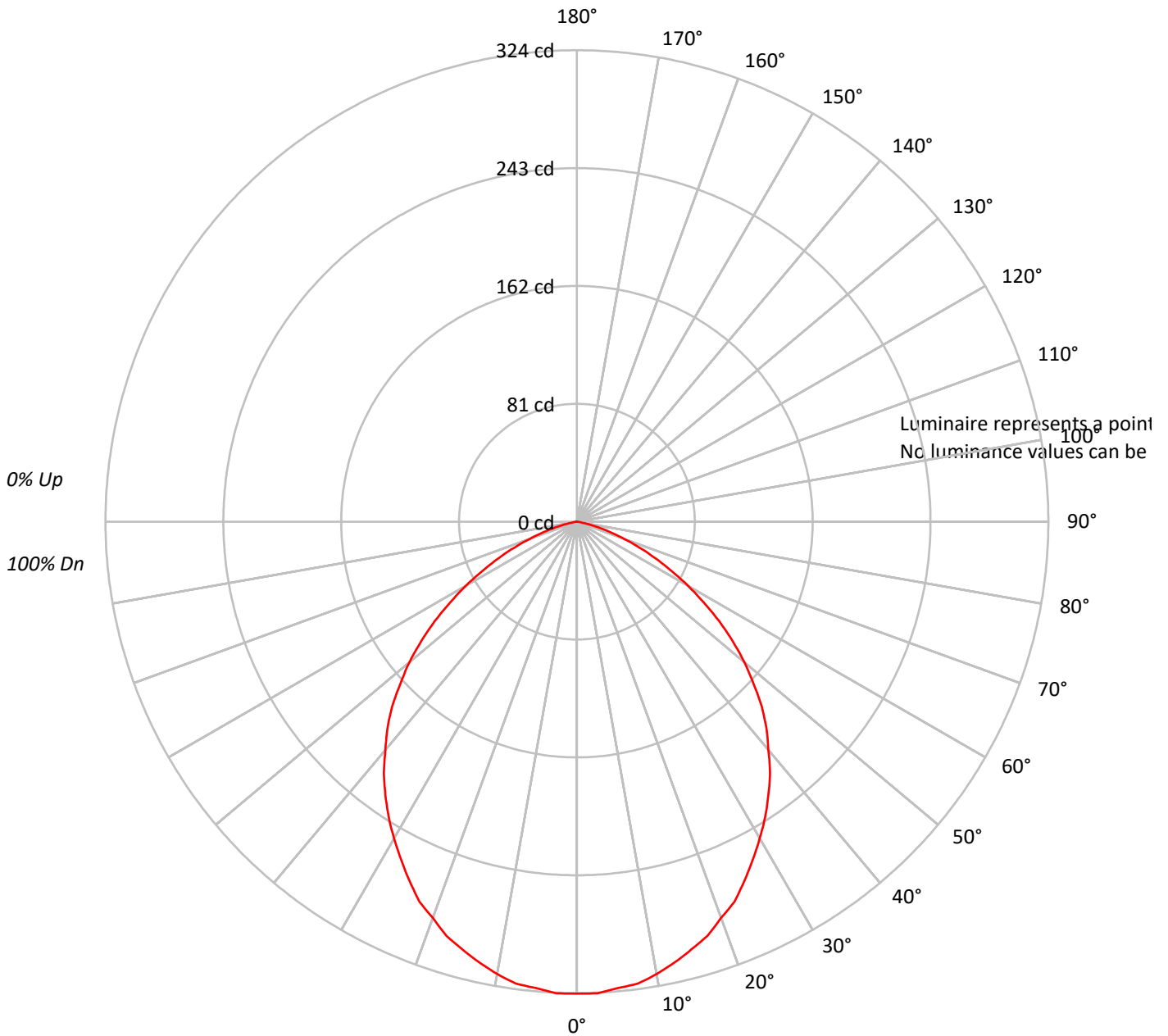
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				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	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	111	107	103	100	108	105	101	98	100	98	95	97	94	92	93	91	90	88				88
2	102	95	89	84	99	93	88	83	90	85	81	86	83	79	83	80	78	76				76
3	94	85	77	72	92	83	76	71	80	74	70	77	73	69	75	71	67	65				65
4	87	76	68	62	84	74	67	61	72	66	61	70	64	60	68	63	59	57				57
5	80	68	60	54	78	67	59	54	65	58	53	63	57	53	61	56	52	50				50
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44				44
7	69	56	48	42	67	56	48	42	54	47	42	53	46	42	51	46	41	40				40
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36				36
9	60	48	40	35	59	47	40	34	46	39	34	45	39	34	44	38	34	32				32
10	57	44	36	31	55	43	36	31	43	36	31	42	35	31	41	35	31	29				29

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.6	4.3
10°-20°	85.8	12.1
20°-30°	125.3	17.7
30°-40°	143.3	20.3
40°-50°	137.7	19.5
50°-60°	106.4	15.1
60°-70°	59.4	8.4
70°-80°	17.3	2.4
80°-90°	0.7	0.1
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°	241.7	34.2
0°-40°	385.0	54.5
0°-60°	629.1	89.0
0°-90°	706.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	706.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	324	
5°	322	31
15°	304	86
25°	272	125
35°	229	143
45°	180	138
55°	119	106
65°	59	59
75°	15	17
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	324.4
2.5°	324.4
5°	321.7
7.5°	320.3
10°	315.7
12.5°	310.3
15°	304.3
17.5°	298.4
20°	289.7
22.5°	282.8
25°	272.3
27.5°	261.8
30°	251.3
32.5°	240.8
35°	229.4
37.5°	218.0
40°	204.7
42.5°	192.8
45°	179.6
47.5°	164.5
50°	150.3
52.5°	134.8
55°	119.3
57.5°	103.3
60°	88.2
62.5°	73.1
65°	59.4
67.5°	46.6
70°	34.7
72.5°	24.2
75°	15.1
77.5°	7.8
80°	2.7
82.5°	0.9
85°	0.5
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)