

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: P206301

Luminaire Tested: **LD4B10D010 EU4B10208027 4LBCSMW1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P206301
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 EU4B10208027 4LBCSMW1
Description: PORTFOLIO 4 INCH SHALLOW RECESSED DOWNLIGHT
SHALLOW DISTRIBUTION WITH CAST MATTE WHITE 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: 1071.7 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.23 / 1.33
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

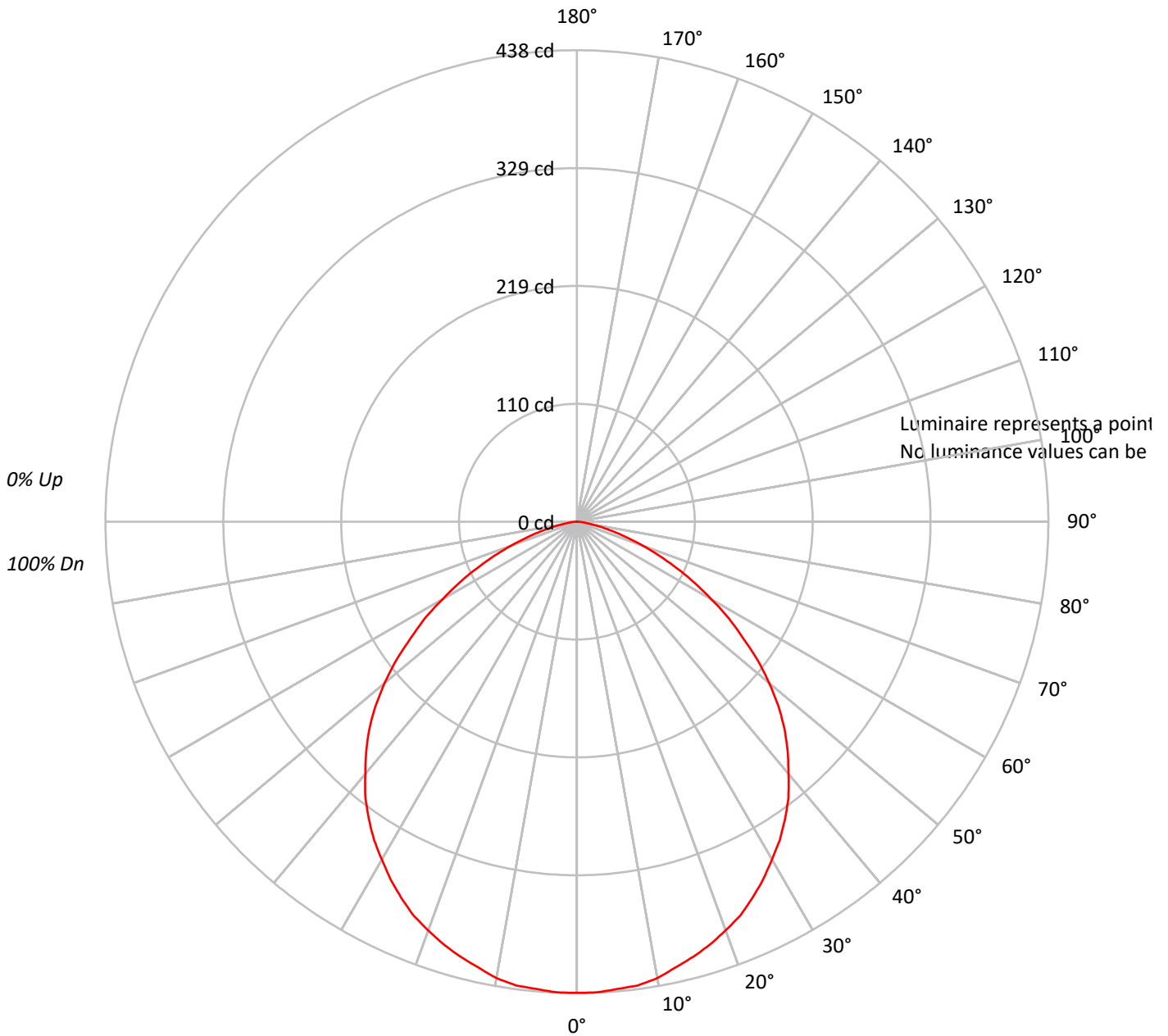
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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											100																	
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87											87																	
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74											74																	
3	93	83	75	70	90	81	74	69	79	73	68	76	71	67	73	69	65	63											63																	
4	85	74	66	60	83	73	65	59	70	64	58	68	62	58	66	61	57	55											55																	
5	79	66	58	52	77	65	57	51	63	56	51	61	55	50	60	54	50	48											48																	
6	73	60	52	45	71	59	51	45	57	50	45	56	49	44	54	49	44	42											42																	
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	50	44	39	37											37																	
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	33											33																	
9	59	46	38	33	57	45	38	32	44	37	32	43	37	32	42	36	32	30											30																	
10	55	42	35	30	54	42	34	30	41	34	29	40	34	29	39	33	29	27											27																	

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.5	3.9
10°-20°	118.1	11.0
20°-30°	177.6	16.6
30°-40°	210.5	19.6
40°-50°	209.5	19.5
50°-60°	168.9	15.8
60°-70°	102.1	9.5
70°-80°	37.9	3.5
80°-90°	5.6	0.5
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°	337.2	31.5
0°-40°	547.7	51.1
0°-60°	926.0	86.4
0°-90°	1071.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1071.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	438	
5°	436	41
15°	418	118
25°	386	178
35°	337	211
45°	273	209
55°	188	169
65°	103	102
75°	34	38
85°	4	6
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	437.7
2.5°	437.7
5°	435.8
7.5°	434.5
10°	430.6
12.5°	424.1
15°	418.3
17.5°	411.8
20°	404.0
22.5°	396.2
25°	385.8
27.5°	374.7
30°	362.4
32.5°	350.7
35°	337.1
37.5°	322.8
40°	305.9
42.5°	289.7
45°	272.8
47.5°	253.9
50°	233.2
52.5°	211.7
55°	188.3
57.5°	167.6
60°	144.2
62.5°	123.4
65°	102.6
67.5°	83.1
70°	64.9
72.5°	48.7
75°	34.4
77.5°	22.1
80°	13.0
82.5°	7.8
85°	4.5
87.5°	1.9
90°	0.0



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— 0°-180°







(END OF REPORT)