

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: P206559

Luminaire Tested: **LD4B40D010 EU4B30508027 4LBCSMMS1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P206559  
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: LD4B40D010 EU4B30508027 4LBCSMMS1  
Description: PORTFOLIO 4 INCH SHALLOW RECESSED DOWNLIGHT  
SHALLOW DISTRIBUTION WITH CAST MATTE BLACK TRIM  
WATTAGE D010TR-43.02W DE010-42.54W D5LT-42.539W DMX-41.87W DL2-41.57W  
DL3-44.71W DLE-39.33W  
Light Source: HIGH LUMEN LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3447.4 lumens  
Efficiency: N/A  
Efficacy: 82.5 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

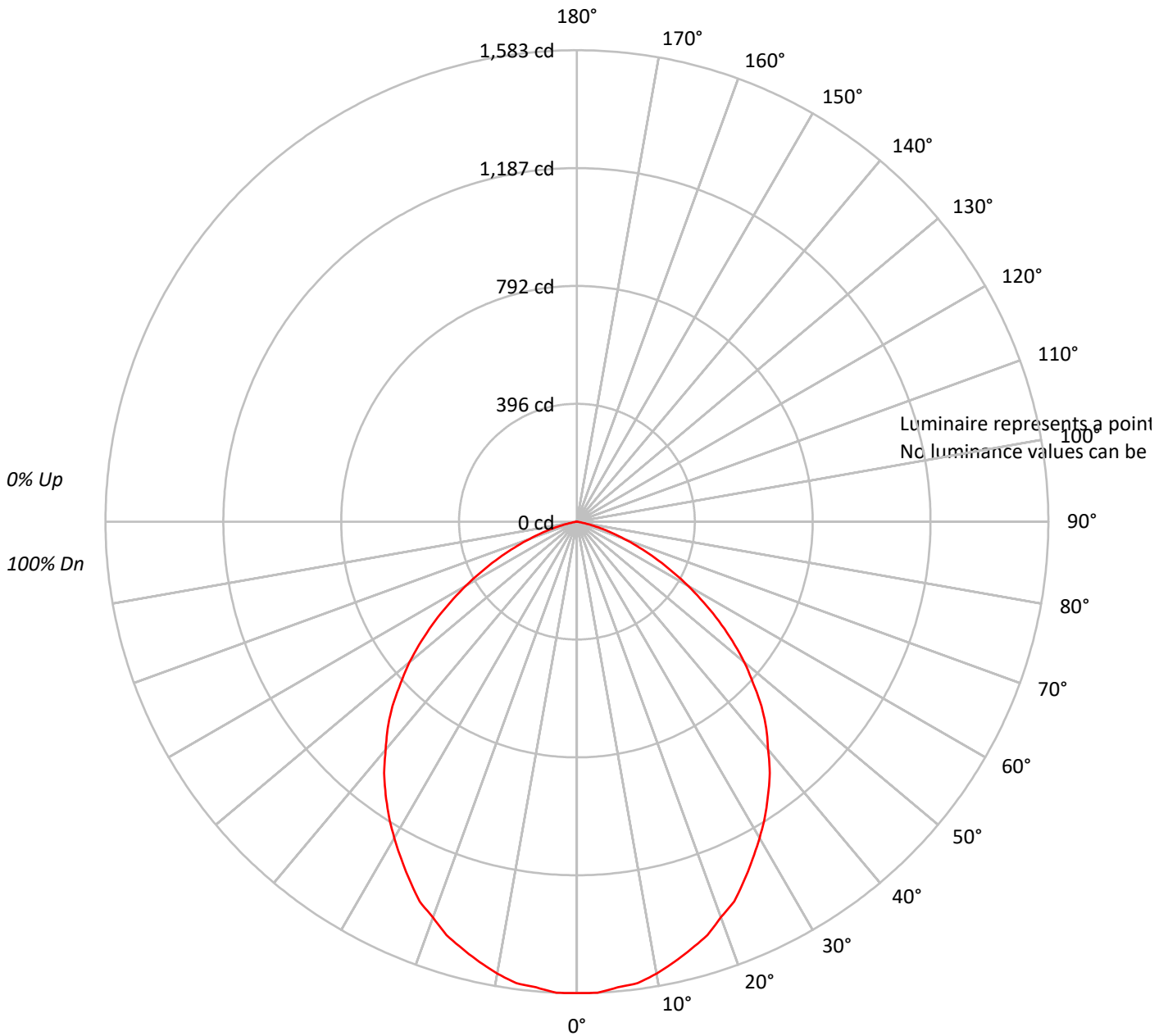
Input Watts (W): 41.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	149.2	4.3
10°-20°	418.6	12.1
20°-30°	611.4	17.7
30°-40°	699.3	20.3
40°-50°	672.1	19.5
50°-60°	519.0	15.1
60°-70°	289.7	8.4
70°-80°	84.3	2.4
80°-90°	3.6	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°	1179.2	34.2
0°-40°	1878.6	54.5
0°-60°	3069.7	89.0
0°-90°	3447.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3447.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1583	
5°	1570	149
15°	1485	419
25°	1329	611
35°	1119	699
45°	876	672
55°	582	519
65°	290	290
75°	74	84
85°	2	4
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1583.1
2.5°	1583.1
5°	1569.7
7.5°	1563.0
10°	1540.7
12.5°	1514.0
15°	1485.0
17.5°	1456.0
20°	1413.6
22.5°	1380.2
25°	1328.9
27.5°	1277.6
30°	1226.3
32.5°	1175.1
35°	1119.3
37.5°	1063.6
40°	998.9
42.5°	940.9
45°	876.3
47.5°	802.7
50°	733.6
52.5°	657.8
55°	582.0
57.5°	503.9
60°	430.3
62.5°	356.8
65°	289.9
67.5°	227.4
70°	169.5
72.5°	118.2
75°	73.6
77.5°	37.9
80°	13.4
82.5°	4.5
85°	2.2
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)