

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: PORTFOLIO

Report Number: P739312

Luminaire Tested: LD4D02D010-EU4DR450210IC9027-4LBS1MW

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P739312  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-36)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/30/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD4D02D010-EU4DR450210IC9027-4LBS1MW  
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 45° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 345.5 lumens  
Efficiency: N/A  
Efficacy: 67.8 lumens/watt  
Spacing Criteria (0/90/45): 0.75 / 0.75 / 0.69  
Luminous Opening: Circular (Dia: 0.35' x H: 0')  
CIE Type: Direct

Input Watts (W): 5.1  
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: 24 FT



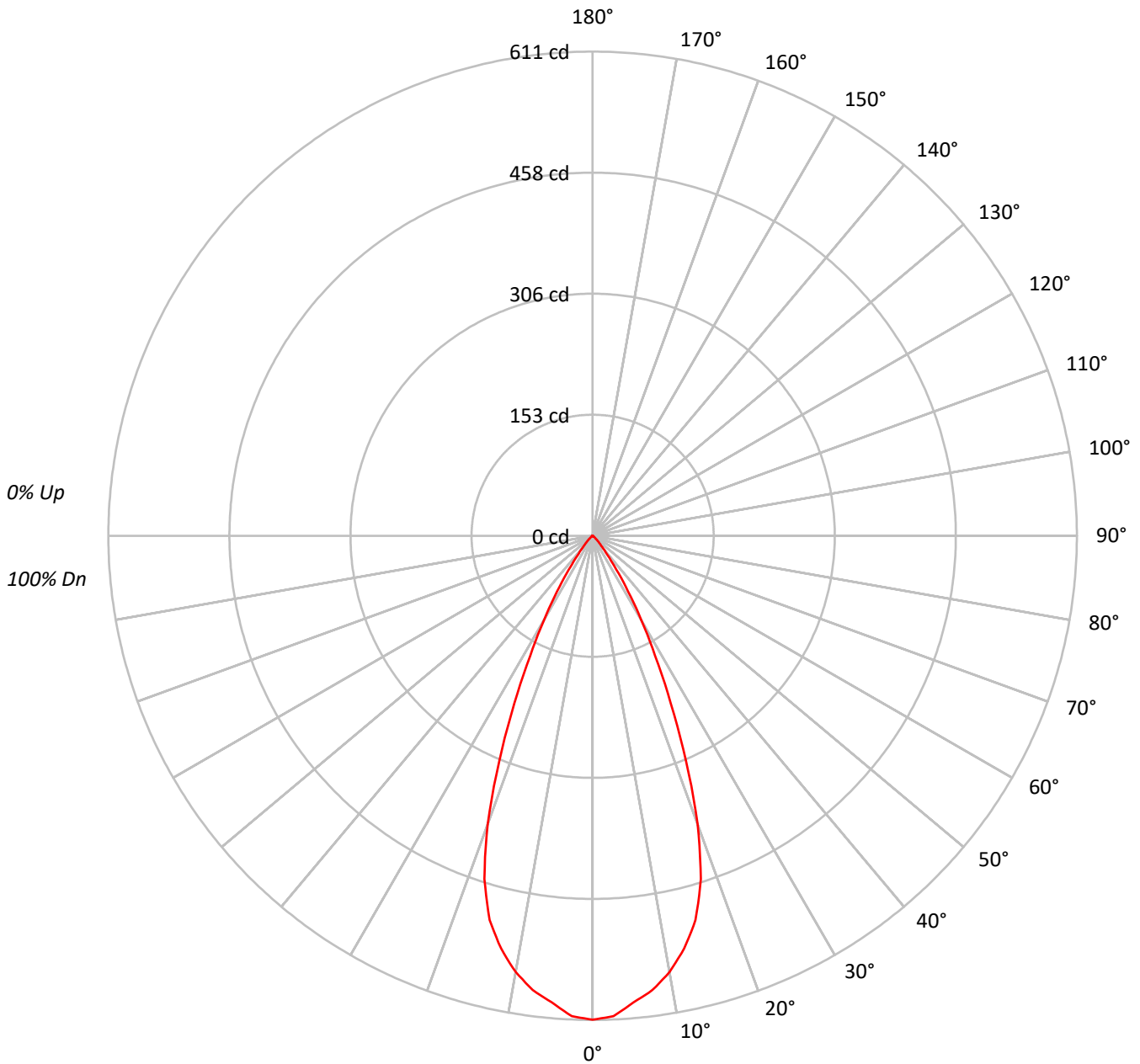
Downlight



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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									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	98	98	97	95	95	93	91	89	87	85																							
	1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	98	98	97	95	95	93	91	89	87	85	83	81	79	77	75	73																							
	2	109	105	102	99	107	103	100	98	100	98	95	97	95	93	95	93	91	90	88	87	85	83	81	79	77	75	73	71	69	67																							
	3	105	99	95	91	103	98	94	91	95	92	89	93	90	88	91	89	87	85	83	81	79	77	75	73	71	69	67	65	63																								
	4	100	94	89	85	99	93	88	85	91	87	84	89	86	83	87	84	82	81	79	77	75	73	71	69	67	65	63	61	59																								
	5	96	89	84	80	95	88	83	80	86	82	79	85	81	79	83	80	78	77	75	73	71	69	67	65	63	61	59	57	55																								
	6	92	85	79	76	91	84	79	76	83	78	75	81	77	75	80	77	74	73	71	69	67	65	63	61	59	57	55	53	51																								
	7	89	81	75	72	87	80	75	72	79	74	71	78	74	71	77	73	70	69	67	65	63	61	59	57	55	53	51	49	47																								
	8	85	77	72	68	84	76	71	68	75	71	68	74	70	67	73	70	67	66	64	62	60	58	56	54	52	50	48	46	44																								
	9	82	73	68	65	81	73	68	65	72	68	65	71	67	64	71	67	64	63	61	59	57	55	53	51	49	47	45	43	41																								
	10	79	70	65	62	78	70	65	62	69	65	62	68	64	61	68	64	61	60	58	56	54	52	50	48	46	44	42	40	38	36																							

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	66726
5°	64831
10°	62019
15°	56761
20°	45032
25°	28114
30°	15493
35°	6949
40°	2738
45°	1298
50°	612
55°	324
60°	153
65°	52
70°	32
75°	0
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1298 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	55.5	16.1
10°-20°	136.7	39.6
20°-30°	108.2	31.3
30°-40°	36.0	10.4
40°-50°	7.2	2.1
50°-60°	1.6	0.5
60°-70°	0.3	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°	300.5	87.0
0°-40°	336.5	97.4
0°-60°	345.3	99.9
0°-90°	345.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	345.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	611	
5°	591	56
15°	502	137
25°	233	108
35°	52	36
45°	8	7
55°	2	2
65°	0	0
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	610.7
2.5°	606.8
5°	591.1
7.5°	578.2
10°	559.0
12.5°	533.6
15°	501.8
17.5°	454.1
20°	387.3
22.5°	307.8
25°	233.2
27.5°	170.7
30°	122.8
32.5°	83.5
35°	52.1
37.5°	30.9
40°	19.2
42.5°	12.6
45°	8.4
47.5°	5.4
50°	3.6
52.5°	2.4
55°	1.7
57.5°	1.1
60°	0.7
62.5°	0.4
65°	0.2
67.5°	0.1
70°	0.1
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

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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(END OF REPORT)