

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: P748684

Luminaire Tested: LD4D45BD010-EU4DR5040509050-4LBCSSQMW

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P748684  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-44)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/30/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD4D45BD010-EU4DR5040509050-4LBCSSQMW  
Description: 4 INCH SQAURE SHALLOW CAST MATTE WHITE TRIM, WITH 50° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

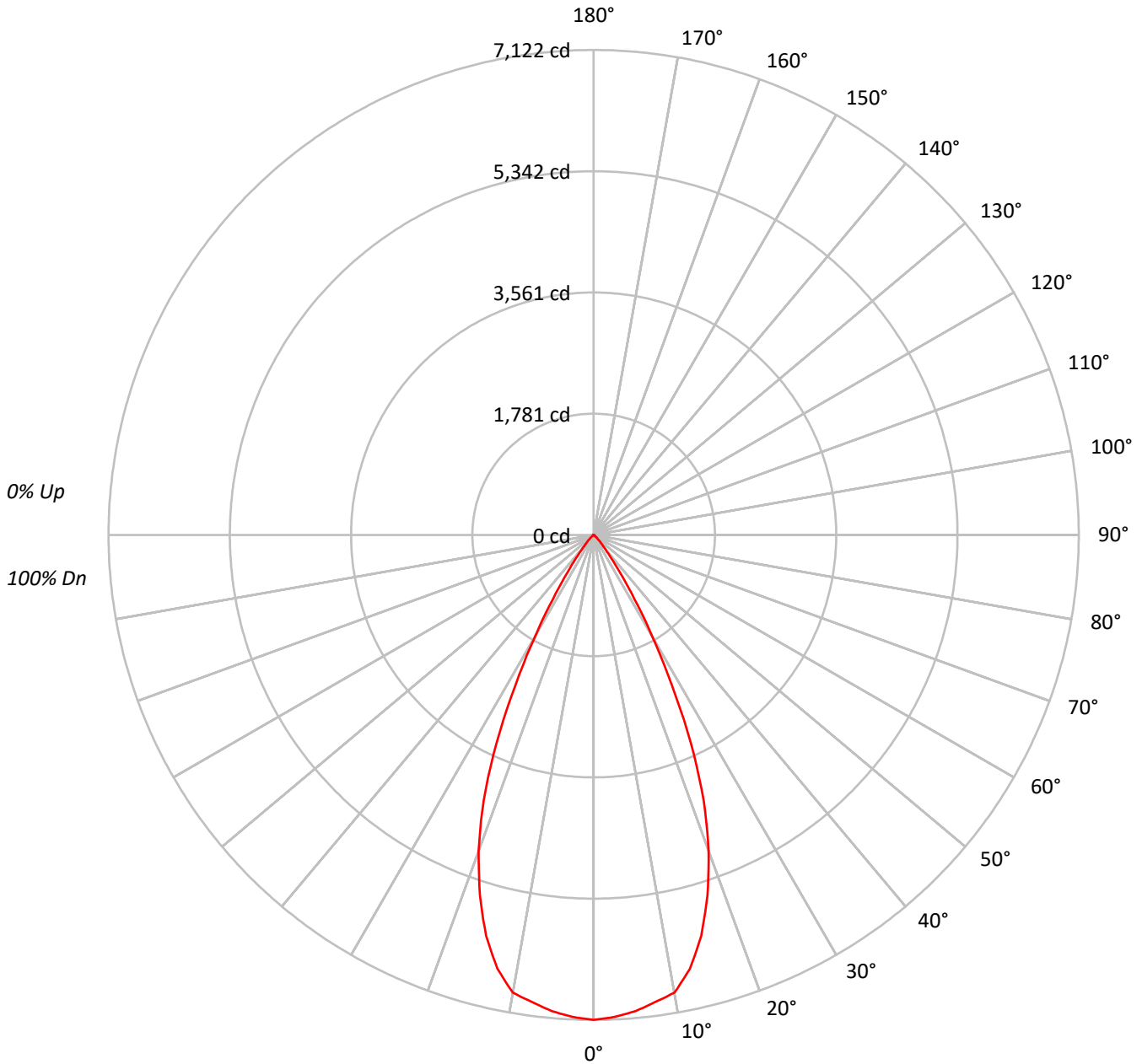
Lumens per Lamp: N/A  
Luminaire Lumens: 4420.1 lumens  
Efficiency: N/A  
Efficacy: 114.2 lumens/watt  
Spacing Criteria (0/90/45): 0.8 / 0.8 / 0.73  
Luminous Opening: Circular (Dia: 0.35' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 38.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	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	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100																
1	114	112	109	107	112	110	108	106	106	104	102	102	101	99	98	97	97	95			95																
2	109	105	101	98	107	103	100	97	100	98	95	97	95	93	95	93	91	90			90																
3	105	99	95	91	103	98	94	90	95	92	89	93	90	88	91	88	86	85			85																
4	100	94	89	85	99	93	88	85	90	87	84	89	85	83	87	84	82	80			80																
5	96	89	84	80	95	88	83	79	86	82	79	85	81	78	83	80	77	76			76																
6	92	84	79	75	91	83	79	75	82	78	74	81	77	74	79	76	74	72			72																
7	88	80	75	71	87	79	74	71	78	74	71	77	73	70	76	73	70	69			69																
8	85	76	71	67	84	76	71	67	75	70	67	74	70	67	73	69	66	65			65																
9	81	73	68	64	80	72	67	64	71	67	64	71	67	64	70	66	63	62			62																
10	78	70	64	61	77	69	64	61	68	64	61	68	64	61	67	63	60	59			59																

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

	0°
0°	778144
5°	769984
10°	757308
15°	689583
20°	573818
25°	407322
30°	215601
35°	87859
40°	32634
45°	14942
50°	6119
55°	3200
60°	1573
65°	465
70°	0
75°	0
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 14942 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	663.6	15.0
10°-20°	1677.0	37.9
20°-30°	1506.4	34.1
30°-40°	471.6	10.7
40°-50°	82.6	1.9
50°-60°	16.4	0.4
60°-70°	2.5	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°	3846.9	87.0
0°-40°	4318.6	97.7
0°-60°	4417.6	99.9
0°-90°	4420.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4420.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	7122	
5°	7020	664
15°	6096	1677
25°	3379	1506
35°	659	472
45°	97	83
55°	17	16
65°	2	2
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	7121.9
2.5°	7086.5
5°	7020.4
7.5°	6919.6
10°	6825.9
12.5°	6525.7
15°	6096.3
17.5°	5551.1
20°	4935.1
22.5°	4222.3
25°	3378.7
27.5°	2484.1
30°	1708.9
32.5°	1112.6
35°	658.7
37.5°	378.3
40°	228.8
42.5°	148.9
45°	96.7
47.5°	58.8
50°	36.0
52.5°	24.6
55°	16.8
57.5°	11.4
60°	7.2
62.5°	4.2
65°	1.8
67.5°	0.6
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

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)