

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: P749457

Luminaire Tested: LD4D50D010-EU4DR5040509040-4LBS1H

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P749457  
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: LD4D50D010-EU4DR5040509040-4LBS1H  
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 50° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5589.9 lumens  
Efficiency: N/A  
Efficacy: 118.9 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

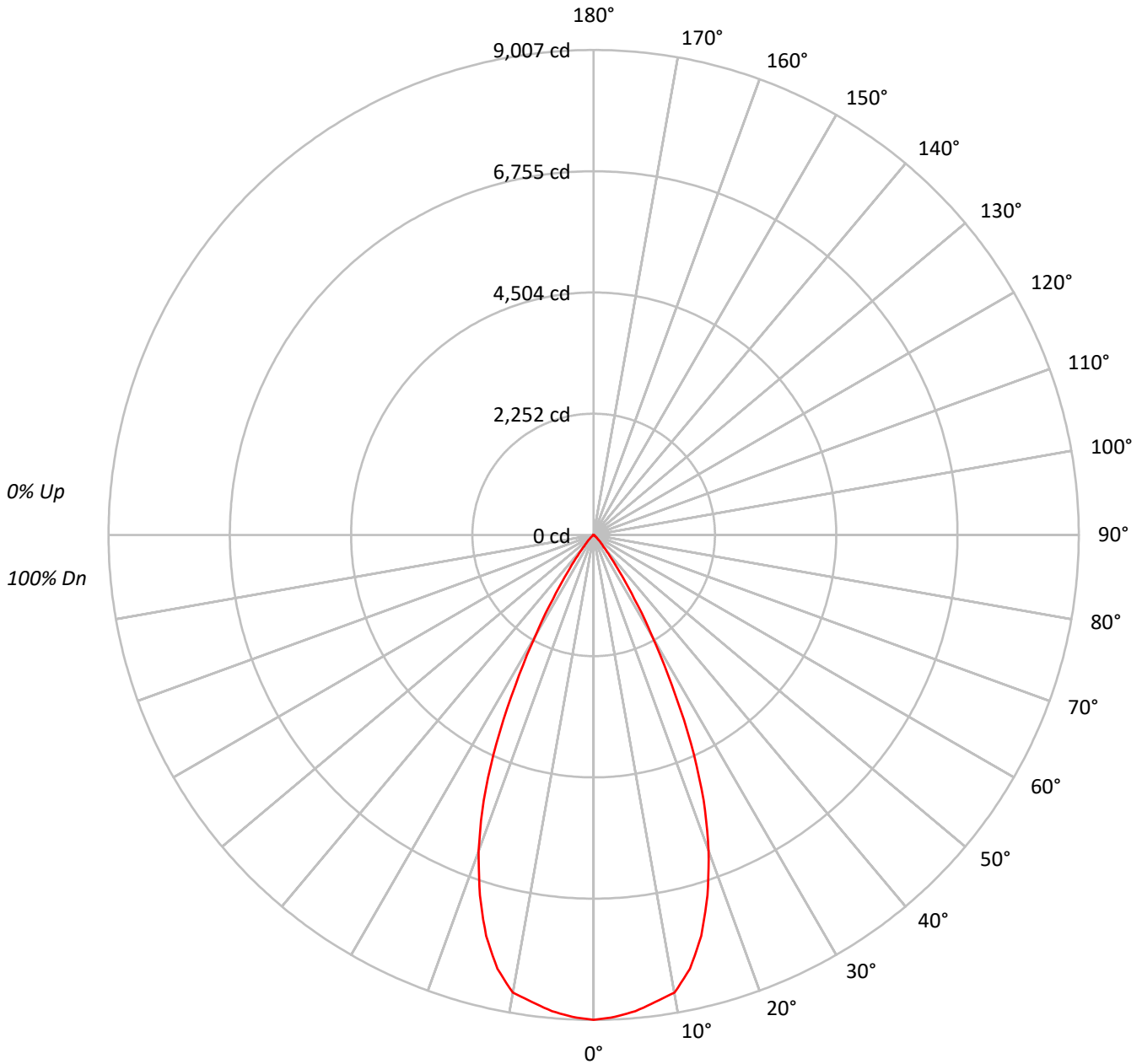
Input Watts (W): 47  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



Downlight

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### Luminous Intensity Polar Plot





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

RF	20									20									20									20									
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	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°	984068
5°	973755
10°	957722
15°	872083
20°	725671
25°	515123
30°	272652
35°	111108
40°	41263
45°	18898
50°	7751
55°	4057
60°	1989
65°	595
70°	0
75°	0
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 18898 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	839.2	15.0
10°-20°	2120.8	37.9
20°-30°	1905.0	34.1
30°-40°	596.5	10.7
40°-50°	104.4	1.9
50°-60°	20.8	0.4
60°-70°	3.2	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°	4865.0	87.0
0°-40°	5461.4	97.7
0°-60°	5586.7	99.9
0°-90°	5589.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5589.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	9007	
5°	8878	839
15°	7710	2121
25°	4273	1905
35°	833	596
45°	122	104
55°	21	21
65°	2	3
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	9006.6
2.5°	8961.8
5°	8878.3
7.5°	8750.7
10°	8632.3
12.5°	8252.6
15°	7709.7
17.5°	7020.2
20°	6241.1
22.5°	5339.7
25°	4272.9
27.5°	3141.4
30°	2161.1
32.5°	1407.1
35°	833.0
37.5°	478.4
40°	289.3
42.5°	188.3
45°	122.3
47.5°	74.4
50°	45.6
52.5°	31.1
55°	21.3
57.5°	14.4
60°	9.1
62.5°	5.3
65°	2.3
67.5°	0.8
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)