

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



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: P749365

Luminaire Tested: LD4D50D010-EU4DR4540509035-4LBS1B

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P749365  
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: LD4D50D010-EU4DR4540509035-4LBS1B  
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 45° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4937.7 lumens  
Efficiency: N/A  
Efficacy: 105.1 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

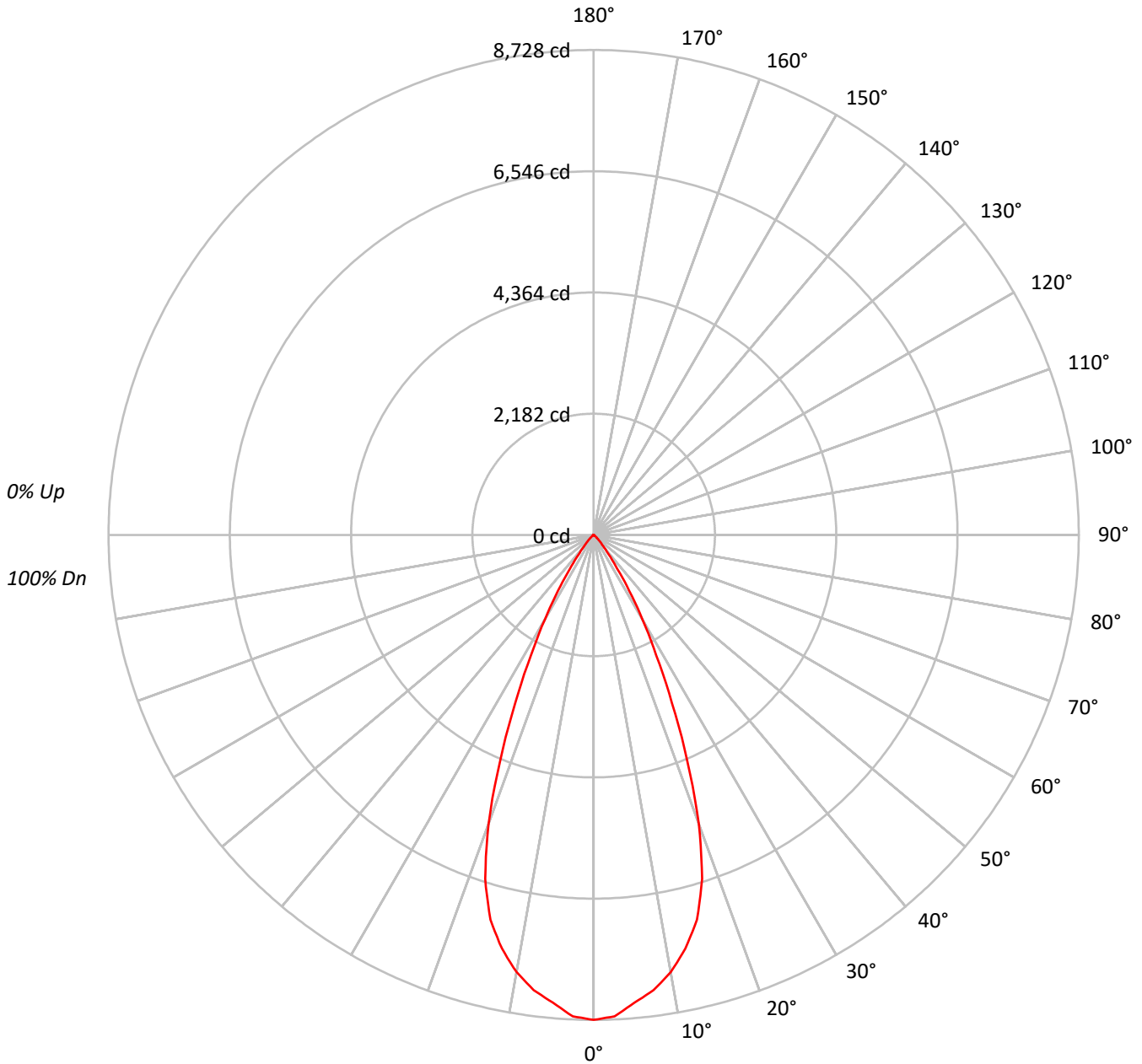
Input Watts (W): 47  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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

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

	0°
0°	953573
5°	926429
10°	886339
15°	811182
20°	643547
25°	401777
30°	221455
35°	99437
40°	39166
45°	18449
50°	8754
55°	4572
60°	2251
65°	543
70°	224
75°	0
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 18449 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	793.7	16.1
10°-20°	1953.3	39.6
20°-30°	1546.8	31.3
30°-40°	515.1	10.4
40°-50°	102.2	2.1
50°-60°	23.2	0.5
60°-70°	3.4	0.1
70°-80°	0.1	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°	4293.7	87.0
0°-40°	4808.8	97.4
0°-60°	4934.3	99.9
0°-90°	4937.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4937.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	8728	
5°	8447	794
15°	7171	1953
25°	3333	1547
35°	746	515
45°	119	102
55°	24	23
65°	2	3
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	8727.5
2.5°	8670.5
5°	8446.8
7.5°	8262.1
10°	7988.9
12.5°	7625.1
15°	7171.3
17.5°	6489.0
20°	5534.8
22.5°	4398.1
25°	3332.7
27.5°	2440.3
30°	1755.3
32.5°	1193.7
35°	745.5
37.5°	442.1
40°	274.6
42.5°	180.5
45°	119.4
47.5°	76.9
50°	51.5
52.5°	34.3
55°	24.0
57.5°	15.8
60°	10.3
62.5°	5.5
65°	2.1
67.5°	0.7
70°	0.7
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

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Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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(END OF REPORT)