

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: P749283

Luminaire Tested: LD4D50D010-EU4DR4040509035-4LBDP1B

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P749283  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-28)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/30/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD4D50D010-EU4DR4040509035-4LBDP1B  
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 40° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4549.9 lumens  
Efficiency: N/A  
Efficacy: 96.8 lumens/watt  
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.6  
Luminous Opening: Circular (Dia: 0.35' x H: 0')  
CIE Type: Direct

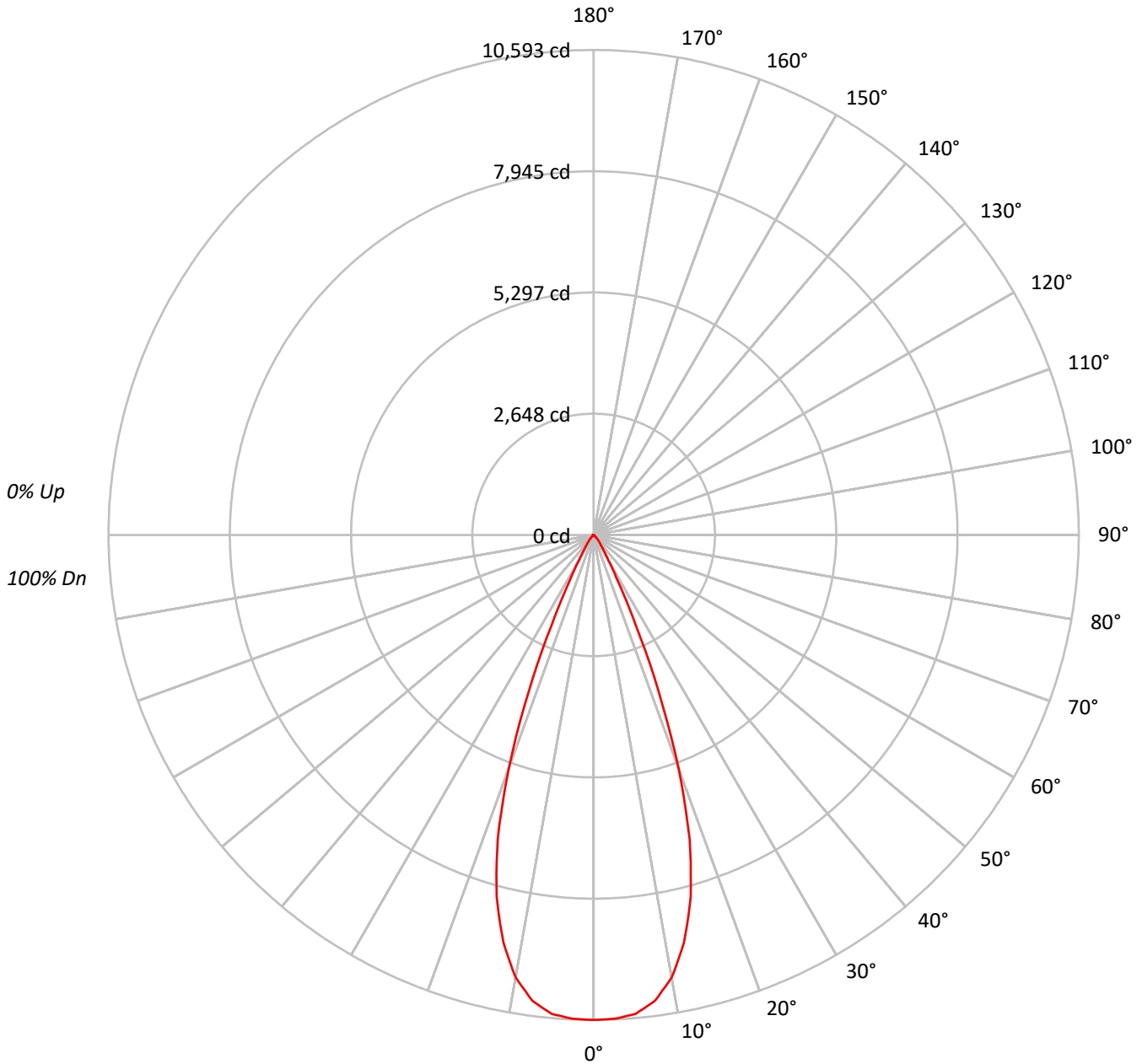
Input Watts (W): 47  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



Downlight

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### Luminous Intensity Polar Plot





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

RF	20									20									20									20									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	0															
RCR	0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	99	98	97	96	95	94	93	92																
	1	115	112	110	108	112	110	108	107	106	105	103	103	101	100	99	98	97	96	95	94	93	92	91	90	89	88	87	86																
	2	110	106	103	100	108	105	102	99	102	99	97	99	97	95	96	95	93	92	91	90	89	88	87	86	85	84	83	82																
	3	106	101	97	94	104	100	96	93	97	94	92	95	93	90	93	91	89	88	87	86	85	84	83	82	81	80	79	78																
	4	102	97	92	89	101	95	91	88	93	90	87	92	89	86	90	87	85	84	83	82	81	80	79	78	77	76	75	74																
	5	99	92	88	84	97	91	87	84	90	86	83	88	85	83	87	84	82	81	80	79	78	77	76	75	74	73	72	71																
	6	95	88	84	80	94	88	83	80	86	82	80	85	82	79	84	81	79	77	76	75	74	73	72	71	70	69	68	67																
	7	92	85	80	77	91	84	80	77	83	79	76	82	79	76	81	78	76	74	73	72	71	70	69	68	67	66	65	64																
	8	89	82	77	74	88	81	77	74	80	76	73	79	76	73	78	75	73	71	70	69	68	67	66	65	64	63	62	61																
	9	86	79	74	71	85	78	74	71	77	73	71	76	73	70	76	72	70	68	67	66	65	64	63	62	61	60	59	58																
	10	83	76	71	68	82	75	71	68	75	71	68	74	70	68	73	70	68	66	65	64	63	62	61	60	59	58	57	56																

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

	0°
0°	1157432
5°	1151807
10°	1088705
15°	925541
20°	630827
25°	263210
30°	82763
35°	38468
40°	21266
45°	9750
50°	4725
55°	2591
60°	1355
65°	491
70°	192
75°	0
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 9750 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	980.6	21.6
10°-20°	2196.8	48.3
20°-30°	1099.6	24.2
30°-40°	201.6	4.4
40°-50°	55.6	1.2
50°-60°	13.1	0.3
60°-70°	2.5	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°	4277.0	94.0
0°-40°	4478.6	98.4
0°-60°	4547.3	99.9
0°-90°	4549.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4549.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	10593	
5°	10502	981
15°	8182	2197
25°	2183	1100
35°	288	202
45°	63	56
55°	14	13
65°	2	2
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	10593.3
2.5°	10577.8
5°	10501.7
7.5°	10259.1
10°	9812.9
12.5°	9117.4
15°	8182.3
17.5°	6966.3
20°	5425.4
22.5°	3698.8
25°	2183.3
27.5°	1154.1
30°	656.0
32.5°	423.9
35°	288.4
37.5°	206.1
40°	149.1
42.5°	102.1
45°	63.1
47.5°	40.2
50°	27.8
52.5°	19.8
55°	13.6
57.5°	8.7
60°	6.2
62.5°	3.7
65°	1.9
67.5°	1.2
70°	0.6
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)