

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: P749747

Luminaire Tested: LD4D50D010-EU4DR7040509030-4LBSQW1MW

Issue Date: 2/5/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P749747  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-73)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD4D50D010-EU4DR7040509030-4LBSQW1MW  
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 70° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4018.7 lumens  
Efficiency: N/A  
Efficacy: 85.5 lumens/watt  
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.82  
Luminous Opening: Circular (Dia: 0.35' x H: 0')  
CIE Type: Direct

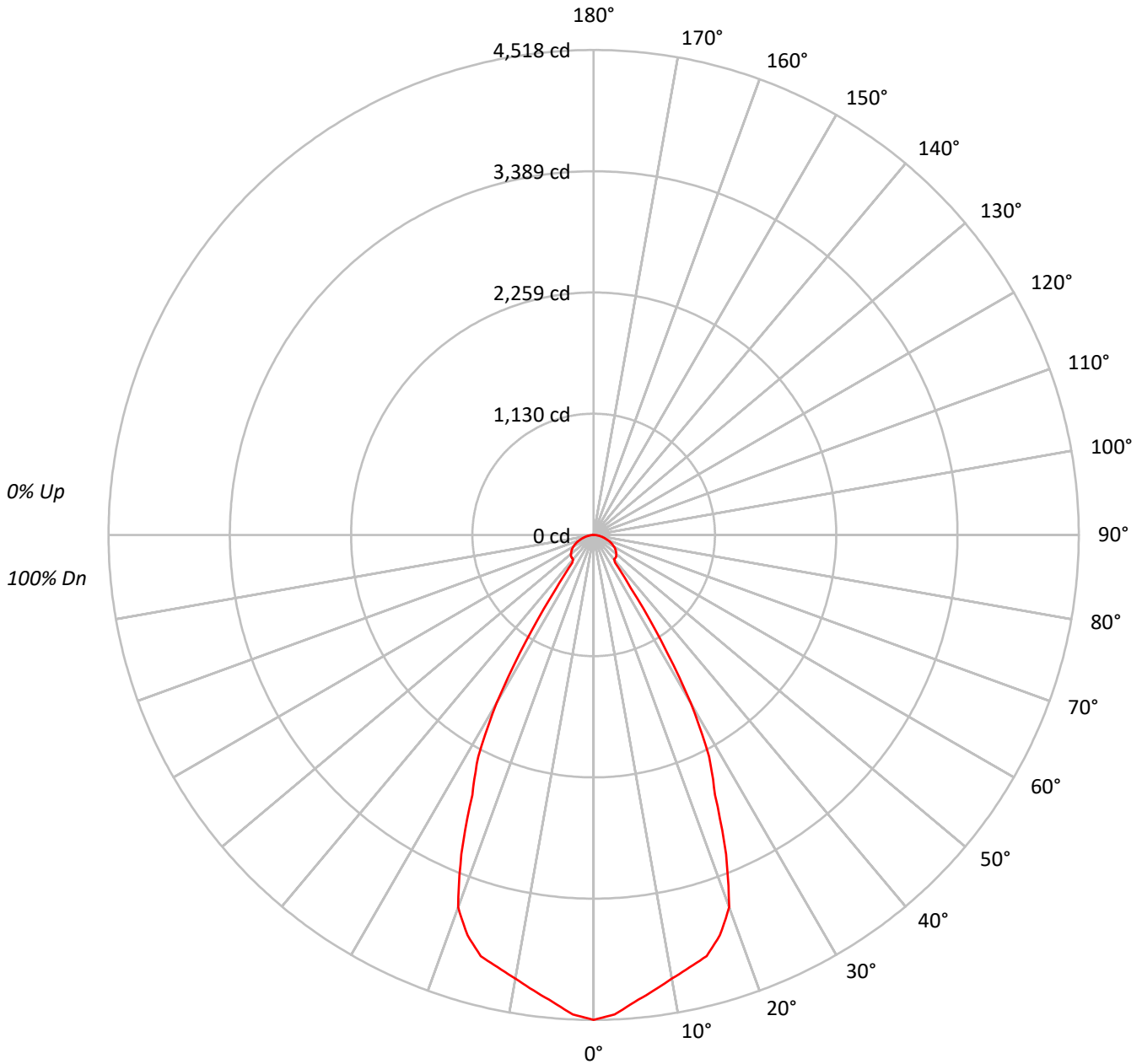
Input Watts (W): 47  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot





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

RF	20				20				20				20				20				
RC	80				70				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			
1	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83			
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76			
4	94	86	80	75	92	85	79	74	82	77	73	80	76	73	78	75	72	70			
5	89	80	74	69	87	79	73	69	77	72	68	75	71	67	74	70	67	65			
6	85	75	68	64	83	74	68	64	73	67	63	71	66	63	70	66	62	61			
7	80	70	64	59	79	70	64	59	68	63	59	67	62	59	66	62	58	57			
8	77	66	60	56	75	66	60	56	65	59	55	64	59	55	63	58	55	53			
9	73	63	57	52	72	62	56	52	61	56	52	60	55	52	60	55	52	50			
10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	48			

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

	0°
0°	493673
5°	478997
10°	465653
15°	459541
20°	429117
25°	322366
30°	227889
35°	80723
40°	42447
45°	45212
50°	46812
55°	47699
60°	47987
65°	46975
70°	44341
75°	41075
80°	36431
85°	29586

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 57.5°  
 Luminance: 48011 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	411.9	10.3
10°-20°	1129.9	28.1
20°-30°	1244.4	31.0
30°-40°	475.5	11.8
40°-50°	224.5	5.6
50°-60°	223.2	5.6
60°-70°	178.7	4.4
70°-80°	102.7	2.6
80°-90°	27.9	0.7
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°	2786.3	69.3
0°-40°	3261.8	81.2
0°-60°	3709.5	92.3
0°-90°	4018.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4018.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4518	
5°	4367	412
15°	4063	1130
25°	2674	1244
35°	605	475
45°	293	224
55°	250	223
65°	182	179
75°	97	103
85°	24	28
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	4518.3
2.5°	4471.0
5°	4367.3
7.5°	4280.8
10°	4197.1
12.5°	4126.2
15°	4062.6
17.5°	3908.8
20°	3690.6
22.5°	3219.9
25°	2674.0
27.5°	2327.8
30°	1806.3
32.5°	1166.8
35°	605.2
37.5°	326.9
40°	297.6
42.5°	295.4
45°	292.6
47.5°	286.1
50°	275.4
52.5°	263.3
55°	250.4
57.5°	236.1
60°	219.6
62.5°	201.0
65°	181.7
67.5°	160.2
70°	138.8
72.5°	117.3
75°	97.3
77.5°	76.5
80°	57.9
82.5°	40.8
85°	23.6
87.5°	9.3
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)