

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: P755542

Luminaire Tested: LD4D90BD010-EU4DR4070959040-4LBS1LI

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P755542  
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: LD4D90BD010-EU4DR4070959040-4LBS1LI  
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 40° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10490.2 lumens  
Efficiency: N/A  
Efficacy: 106.1 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

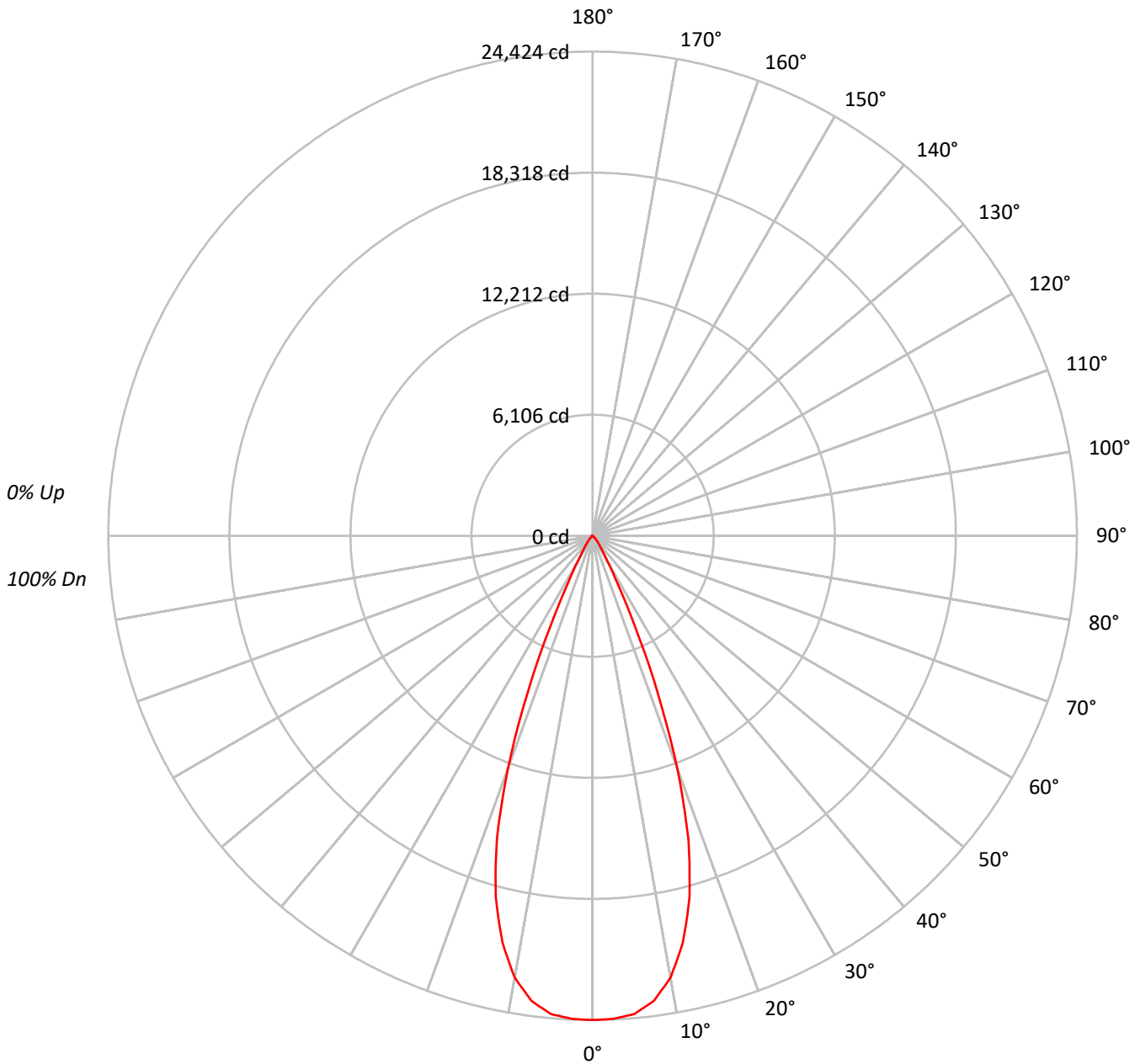
Input Watts (W): 98.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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				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	115	112	110	108	112	110	108	107	106	105	103	103	101	100	99	98	97	96			
2	110	106	103	100	108	105	102	99	102	99	97	99	97	95	96	95	93	92			
3	106	101	97	94	104	100	96	93	97	94	92	95	93	90	93	91	89	88			
4	102	97	92	89	101	95	91	88	93	90	87	92	89	86	90	87	85	84			
5	99	92	88	84	97	91	87	84	90	86	83	88	85	83	87	84	82	81			
6	95	88	84	80	94	88	83	80	86	82	80	85	82	79	84	81	79	77			
7	92	85	80	77	91	84	80	77	83	79	76	82	79	76	81	78	76	74			
8	89	82	77	74	88	81	77	74	80	76	73	79	76	73	78	75	73	72			
9	86	79	74	71	85	78	74	71	77	73	71	76	73	70	76	72	70	69			
10	83	76	71	68	82	75	71	68	75	71	68	74	70	68	73	70	68	67			

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

	0°
0°	2668563
5°	2655592
10°	2510115
15°	2133916
20°	1454422
25°	606842
30°	190810
35°	88686
40°	49050
45°	22482
50°	10913
55°	5981
60°	3125
65°	1112
70°	447
75°	0
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 22482 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2260.8	21.6
10°-20°	5064.9	48.3
20°-30°	2535.3	24.2
30°-40°	464.8	4.4
40°-50°	128.2	1.2
50°-60°	30.1	0.3
60°-70°	5.8	0.1
70°-80°	0.2	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°	9861.1	94.0
0°-40°	10325.8	98.4
0°-60°	10484.2	99.9
0°-90°	10490.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10490.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	24424	
5°	24213	###
15°	18865	5065
25°	5034	2535
35°	665	465
45°	146	128
55°	31	30
65°	4	6
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	24423.8
2.5°	24388.1
5°	24212.6
7.5°	23653.3
10°	22624.6
12.5°	21020.9
15°	18865.0
17.5°	16061.4
20°	12508.7
22.5°	8527.9
25°	5033.7
27.5°	2661.0
30°	1512.4
32.5°	977.4
35°	664.9
37.5°	475.1
40°	343.9
42.5°	235.4
45°	145.5
47.5°	92.7
50°	64.2
52.5°	45.7
55°	31.4
57.5°	20.0
60°	14.3
62.5°	8.6
65°	4.3
67.5°	2.9
70°	1.4
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)