

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: P755812

Luminaire Tested: LD4D90BD010-EU4DR6070959027-4LBDP1MW

Issue Date: 2/5/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P755812  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-57)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD4D90BD010-EU4DR6070959027-4LBDP1MW  
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 60° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7576.8 lumens  
Efficiency: N/A  
Efficacy: 76.6 lumens/watt  
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.83  
Luminous Opening: Circular (Dia: 0.35' x H: 0')  
CIE Type: Direct

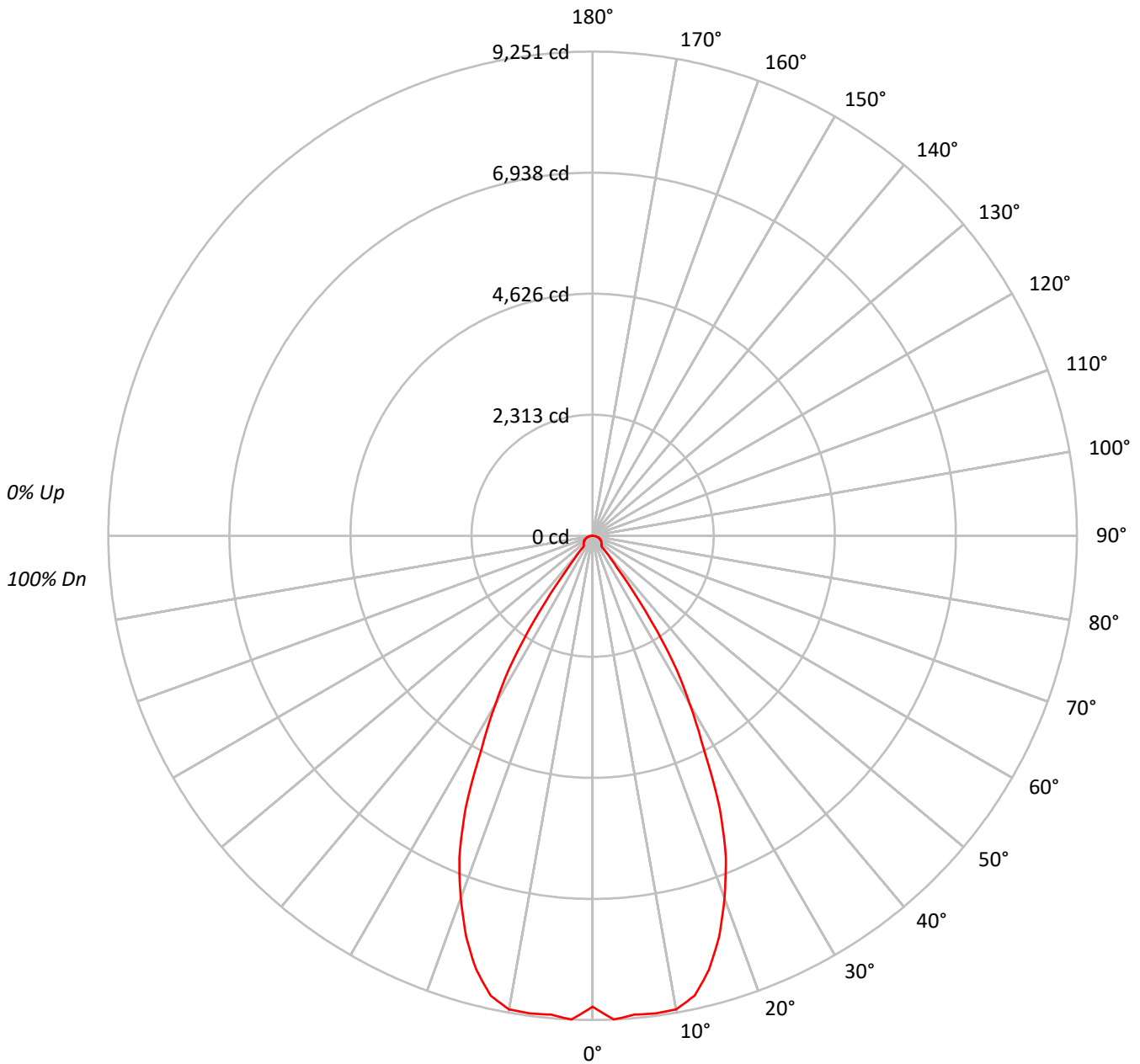
Input Watts (W): 98.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



Downlight

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### Luminous Intensity Polar Plot





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

RF	20									20									20									20									
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	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93																			
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86																			
3	102	96	90	86	100	94	89	86	91	88	84	89	86	83	87	84	82	80																			
4	97	89	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75																			
5	92	84	78	74	91	83	78	74	81	77	73	80	76	72	78	75	72	70																			
6	88	79	73	69	87	78	73	69	77	72	68	75	71	68	74	70	67	66																			
7	84	75	69	65	83	74	68	64	73	68	64	72	67	64	71	67	63	62																			
8	80	71	65	61	79	70	65	61	69	64	60	68	64	60	67	63	60	59																			
9	77	67	61	57	75	67	61	57	66	61	57	65	60	57	64	60	57	55																			
10	73	64	58	54	72	63	58	54	62	58	54	62	57	54	61	57	54	53																			

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

	0°
0°	983183
5°	1007361
10°	1019519
15°	971228
20°	856326
25°	692618
30°	468495
35°	234767
40°	38082
45°	37270
50°	38024
55°	38593
60°	39662
65°	40564
70°	41529
75°	42004
80°	40521
85°	33723

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 75°  
 Luminance: 42004 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	877.8	11.6
10°-20°	2375.0	31.3
20°-30°	2555.3	33.7
30°-40°	1110.7	14.7
40°-50°	186.5	2.5
50°-60°	181.4	2.4
60°-70°	155.1	2.0
70°-80°	103.8	1.4
80°-90°	31.1	0.4
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°	5808.1	76.7
0°-40°	6918.9	91.3
0°-60°	7286.8	96.2
0°-90°	7576.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7576.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	8998	
5°	9185	878
15°	8586	2375
25°	5745	2555
35°	1760	1111
45°	241	187
55°	203	181
65°	157	155
75°	100	104
85°	27	31
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	8998.5
2.5°	9251.4
5°	9184.7
7.5°	9205.7
10°	9189.3
12.5°	8999.6
15°	8586.2
17.5°	8031.2
20°	7364.8
22.5°	6651.6
25°	5745.2
27.5°	4595.3
30°	3713.4
32.5°	2862.1
35°	1760.1
37.5°	753.0
40°	267.0
42.5°	245.9
45°	241.2
47.5°	233.0
50°	223.7
52.5°	213.1
55°	202.6
57.5°	192.1
60°	181.5
62.5°	169.8
65°	156.9
67.5°	144.0
70°	130.0
72.5°	114.8
75°	99.5
77.5°	82.0
80°	64.4
82.5°	45.7
85°	26.9
87.5°	9.4
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)