

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: P755903

Luminaire Tested: LD4D90BD010-EU4DR6570959030-4LBDP1MW

Issue Date: 2/5/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P755903  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-59)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD4D90BD010-EU4DR6570959030-4LBDP1MW  
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 65° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6498.0 lumens  
Efficiency: N/A  
Efficacy: 65.7 lumens/watt  
Spacing Criteria (0/90/45): 0.98 / 0.98 / 0.92  
Luminous Opening: Circular (Dia: 0.35' x H: 0')  
CIE Type: Direct

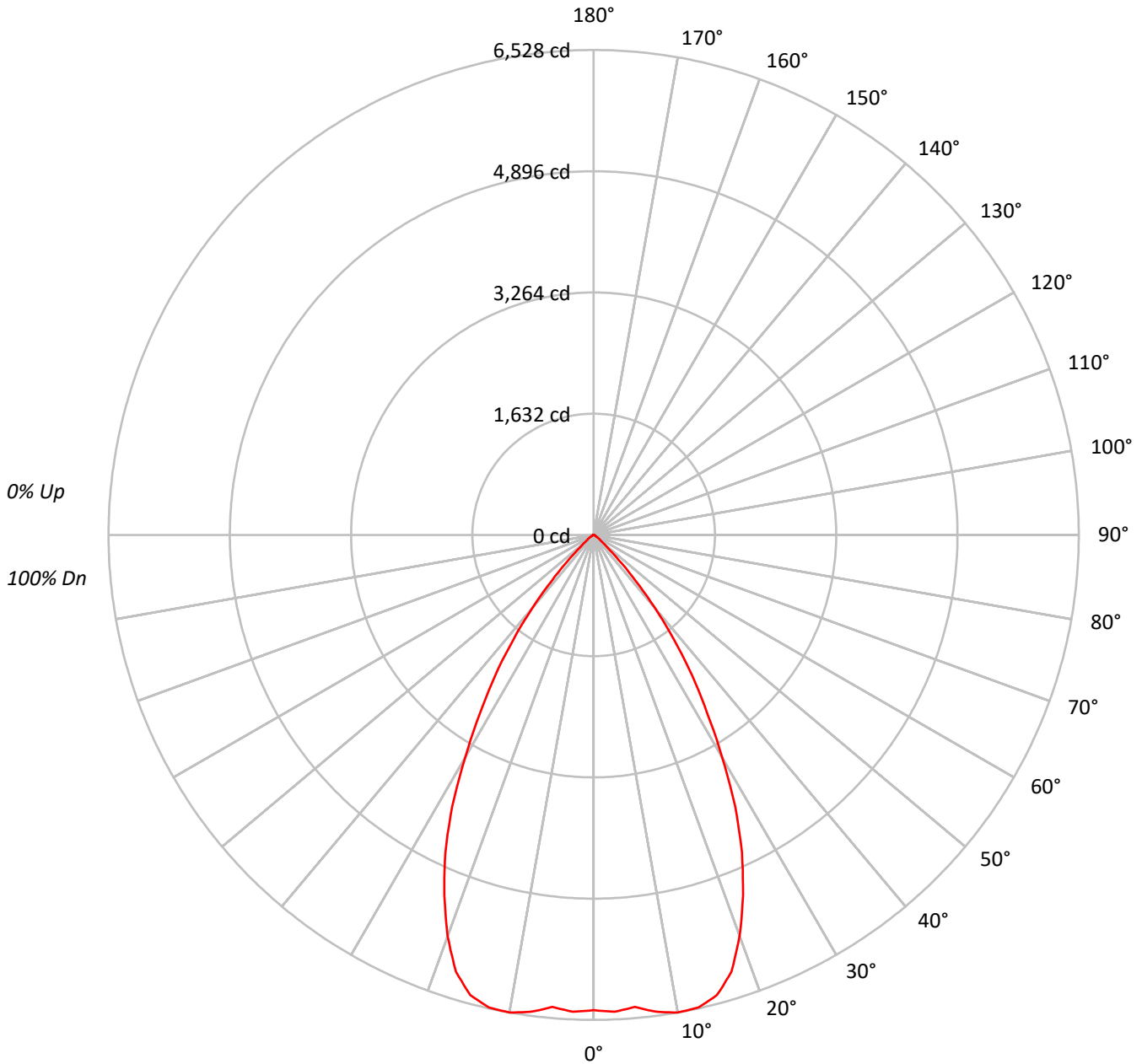
Input Watts (W): 98.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93																			
2	108	103	99	95	106	101	97	94	98	95	92	95	92	90	92	90	88	87																			
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	80																			
4	97	89	84	79	95	88	83	79	86	82	78	84	80	77	82	79	76	75																			
5	92	83	78	73	90	83	77	73	81	76	72	79	75	72	77	74	71	69																			
6	87	78	72	68	86	77	72	68	76	71	67	74	70	67	73	69	66	65																			
7	83	73	67	63	81	73	67	63	71	66	62	70	66	62	69	65	62	60																			
8	79	69	63	59	77	68	63	59	67	62	58	66	62	58	65	61	58	57																			
9	75	65	59	55	74	65	59	55	64	58	55	63	58	55	62	58	54	53																			
10	71	61	56	52	70	61	55	52	60	55	51	59	55	51	59	54	51	50																			

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

	0°
0°	699018
5°	699593
10°	724235
15°	725429
20°	667883
25°	569060
30°	435642
35°	307767
40°	181668
45°	73751
50°	26738
55°	14896
60°	8544
65°	4705
70°	4952
75°	3842
80°	4027
85°	3385

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 73751 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	616.0	9.5
10°-20°	1777.0	27.3
20°-30°	2132.1	32.8
30°-40°	1432.8	22.1
40°-50°	428.9	6.6
50°-60°	75.7	1.2
60°-70°	21.6	0.3
70°-80°	10.6	0.2
80°-90°	3.3	0.1
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°	4525.2	69.6
0°-40°	5958.0	91.7
0°-60°	6462.6	99.5
0°-90°	6498.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6498.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	6398	
5°	6379	616
15°	6413	1777
25°	4720	2132
35°	2307	1433
45°	477	429
55°	78	76
65°	18	22
75°	9	11
85°	3	3
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	6397.7
2.5°	6425.0
5°	6378.6
7.5°	6475.0
10°	6527.8
12.5°	6515.0
15°	6413.2
17.5°	6164.1
20°	5744.1
22.5°	5249.5
25°	4720.3
27.5°	4123.0
30°	3453.0
32.5°	2845.7
35°	2307.4
37.5°	1775.6
40°	1273.7
42.5°	831.9
45°	477.3
47.5°	252.7
50°	157.3
52.5°	109.1
55°	78.2
57.5°	56.4
60°	39.1
62.5°	25.5
65°	18.2
67.5°	16.4
70°	15.5
72.5°	11.8
75°	9.1
77.5°	8.2
80°	6.4
82.5°	4.5
85°	2.7
87.5°	1.8
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)