

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: P755985

Luminaire Tested: LD4D90BD010-EU4DR7070959030-4LBS1MW

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P755985  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-76)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/30/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD4D90BD010-EU4DR7070959030-4LBS1MW  
Description: 4 INCH ROUND SHALLOW 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: 8672.0 lumens  
Efficiency: N/A  
Efficacy: 87.7 lumens/watt  
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.04  
Luminous Opening: Circular (Dia: 0.35' x H: 0')  
CIE Type: Direct

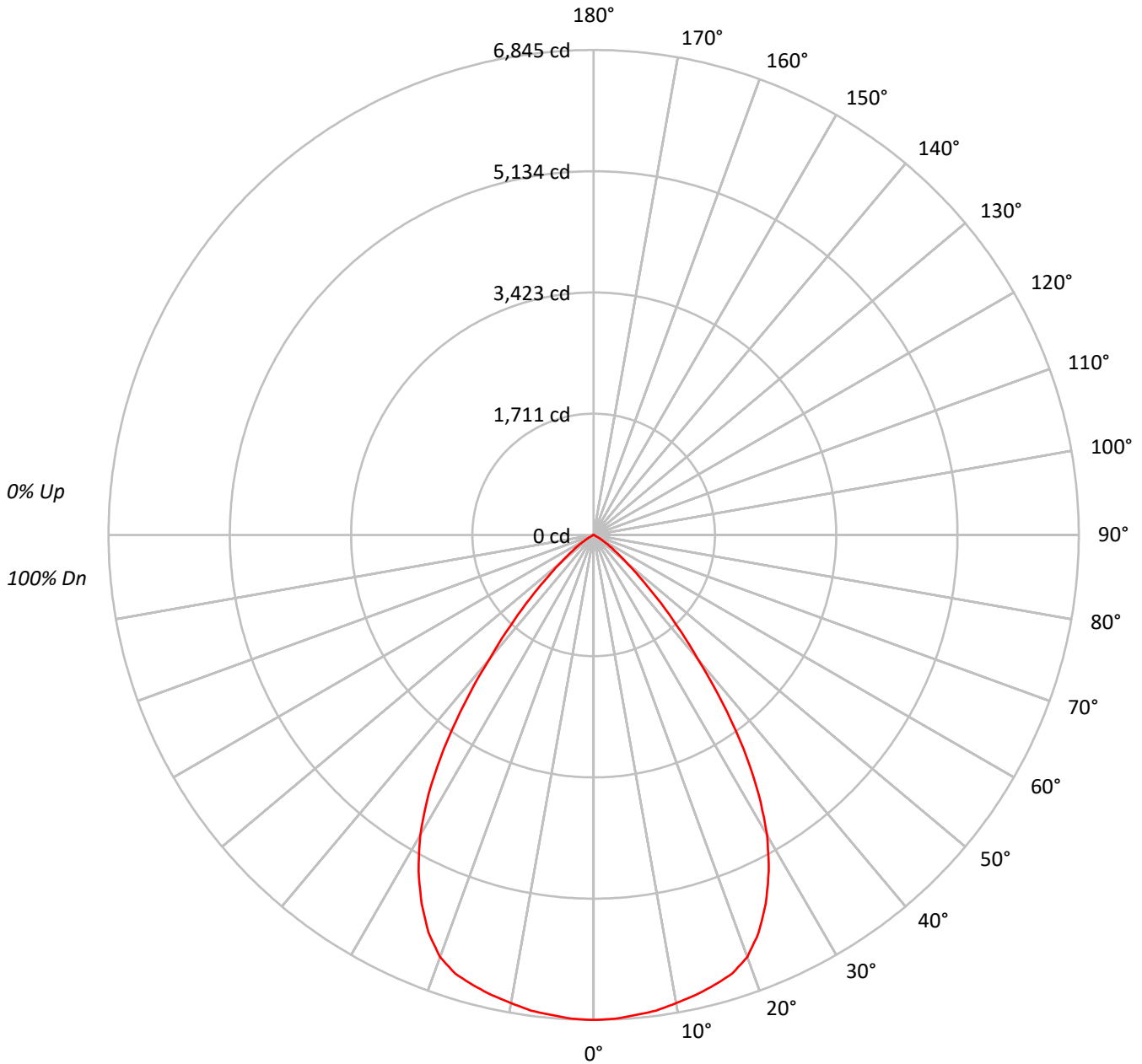
Input Watts (W): 98.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	113	110	107	105	111	108	106	103	104	102	100		100	99	97		97	95	94	93
2	107	102	97	94	105	100	96	92	97	93	90		94	91	88		91	89	87	85
3	101	94	88	84	99	92	87	83	90	85	82		87	84	81		85	82	79	78
4	95	87	81	76	93	86	80	76	83	78	75		81	77	74		79	76	73	71
5	89	80	74	69	88	79	73	69	78	72	68		76	71	68		74	70	67	65
6	84	75	68	63	83	74	68	63	72	67	63		71	66	62		69	65	62	60
7	80	69	63	58	78	69	62	58	67	62	58		66	61	57		65	61	57	56
8	75	65	58	54	74	64	58	54	63	57	53		62	57	53		61	56	53	51
9	71	61	54	50	70	60	54	50	59	53	50		58	53	49		57	53	49	48
10	67	57	50	46	66	56	50	46	55	50	46		55	50	46		54	49	46	44

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

	0°
0°	747857
5°	745998
10°	744372
15°	744173
20°	736891
25°	692220
30°	617116
35°	492022
40°	326708
45°	195326
50°	101257
55°	53223
60°	18837
65°	310
70°	0
75°	0
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 195326 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	646.8	7.5
10°-20°	1855.1	21.4
20°-30°	2617.1	30.2
30°-40°	2259.2	26.1
40°-50°	1011.7	11.7
50°-60°	264.9	3.1
60°-70°	17.2	0.2
70°-80°	0.0	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°	5119.0	59.0
0°-40°	7378.2	85.1
0°-60°	8654.8	99.8
0°-90°	8672.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8672.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	6845	
5°	6802	647
15°	6579	1855
25°	5742	2617
35°	3689	2259
45°	1264	1012
55°	279	265
65°	1	17
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	6844.7
2.5°	6837.3
5°	6801.7
7.5°	6772.1
10°	6709.3
12.5°	6652.7
15°	6578.9
17.5°	6493.9
20°	6337.6
22.5°	6080.4
25°	5741.9
27.5°	5349.3
30°	4891.4
32.5°	4331.3
35°	3688.8
37.5°	2979.9
40°	2290.6
42.5°	1740.4
45°	1264.1
47.5°	871.4
50°	595.7
52.5°	411.1
55°	279.4
57.5°	168.6
60°	86.2
62.5°	27.1
65°	1.2
67.5°	0.0
70°	0.0
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)