

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: P755513

Luminaire Tested: LD4D90BD010-EU4DR4070959030-4LBDP1MW

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P755513  
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-EU4DR4070959030-4LBDP1MW  
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 40° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8512.8 lumens  
Efficiency: N/A  
Efficacy: 86.1 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

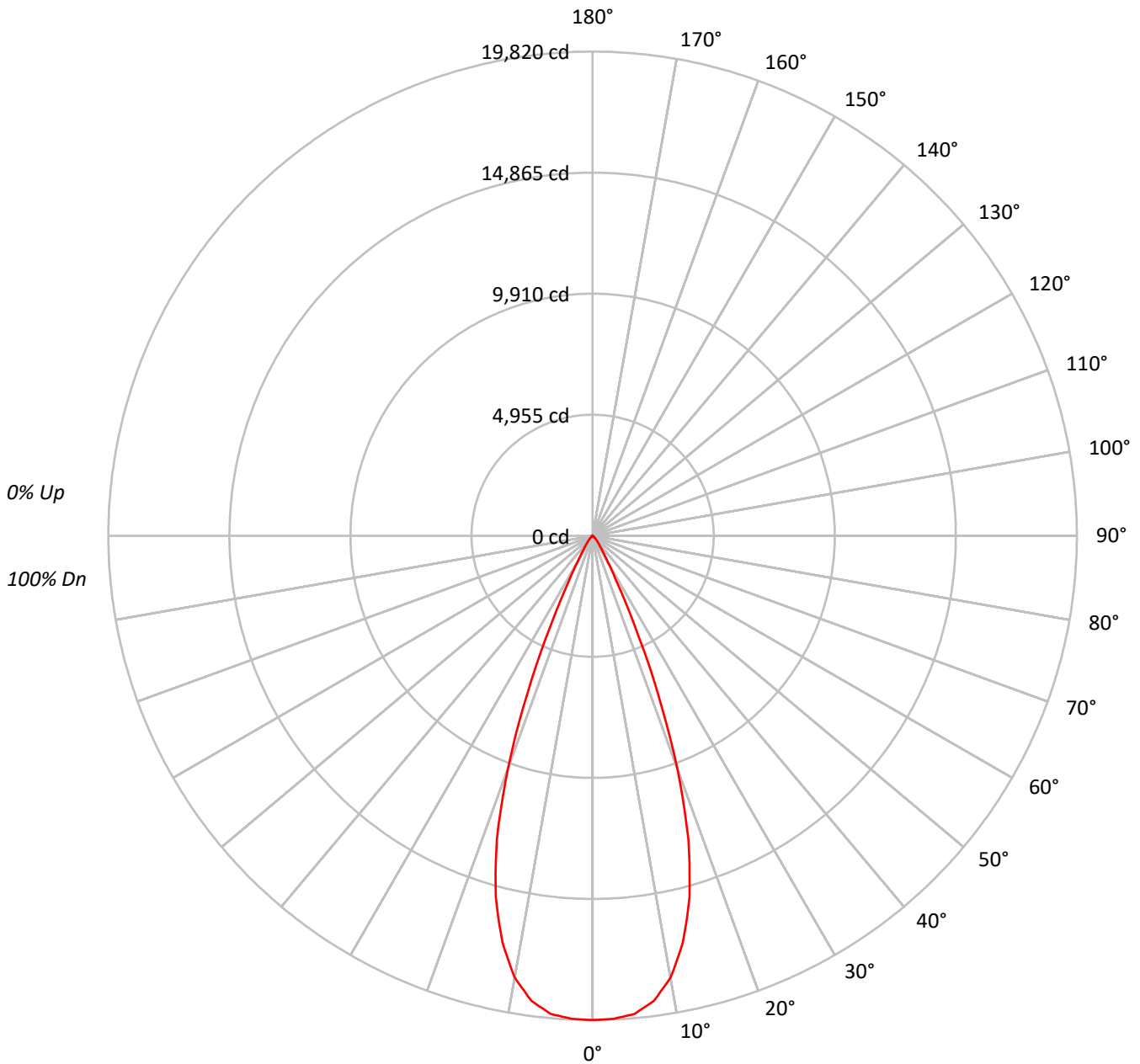
Input Watts (W): 98.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



Downlight

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### Luminous Intensity Polar Plot





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

RF	20									20									20									20									
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				100															
1	115	112	110	108	112	110	108	107	106	105	103	103	101	100	99	98	97	96				96															
2	110	106	103	100	108	105	102	99	102	99	97	99	97	95	96	95	93	92				92															
3	106	101	97	94	104	100	96	93	97	94	92	95	93	90	93	91	89	88				88															
4	102	97	92	89	101	95	91	88	93	90	87	92	89	86	90	87	85	84				84															
5	99	92	88	84	97	91	87	84	90	86	83	88	85	83	87	84	82	81				81															
6	95	88	84	80	94	88	83	80	86	82	80	85	82	79	84	81	79	77				77															
7	92	85	80	77	91	84	80	77	83	79	76	82	79	76	81	78	76	74				74															
8	89	82	77	74	88	81	77	74	80	76	73	79	76	73	78	75	73	72				72															
9	86	79	74	71	85	78	74	71	77	73	71	76	73	70	76	72	70	69				69															
10	83	76	71	68	82	75	71	68	75	71	68	74	70	68	73	70	68	67				67															

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

	0°
0°	2165548
5°	2155032
10°	2036974
15°	1731690
20°	1180263
25°	492459
30°	154840
35°	71973
40°	39794
45°	18249
50°	8856
55°	4858
60°	2535
65°	905
70°	383
75°	0
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 18249 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1834.7	21.6
10°-20°	4110.2	48.3
20°-30°	2057.4	24.2
30°-40°	377.2	4.4
40°-50°	104.1	1.2
50°-60°	24.5	0.3
60°-70°	4.7	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°	8002.3	94.0
0°-40°	8379.5	98.4
0°-60°	8508.0	99.9
0°-90°	8512.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8512.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	19820	
5°	19649	###
15°	15309	4110
25°	4085	2057
35°	540	377
45°	118	104
55°	26	24
65°	4	5
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	19820.0
2.5°	19791.1
5°	19648.7
7.5°	19194.8
10°	18360.0
12.5°	17058.6
15°	15309.1
17.5°	13033.9
20°	10150.8
22.5°	6920.5
25°	4084.9
27.5°	2159.4
30°	1227.3
32.5°	793.1
35°	539.6
37.5°	385.6
40°	279.0
42.5°	191.0
45°	118.1
47.5°	75.3
50°	52.1
52.5°	37.1
55°	25.5
57.5°	16.2
60°	11.6
62.5°	6.9
65°	3.5
67.5°	2.3
70°	1.2
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)