

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: P755515

Luminaire Tested: LD4D90BD010-EU4DR4070959030-4LBS1H

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P755515  
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-EU4DR4070959030-4LBS1H  
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 40° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9444.9 lumens  
Efficiency: N/A  
Efficacy: 95.5 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

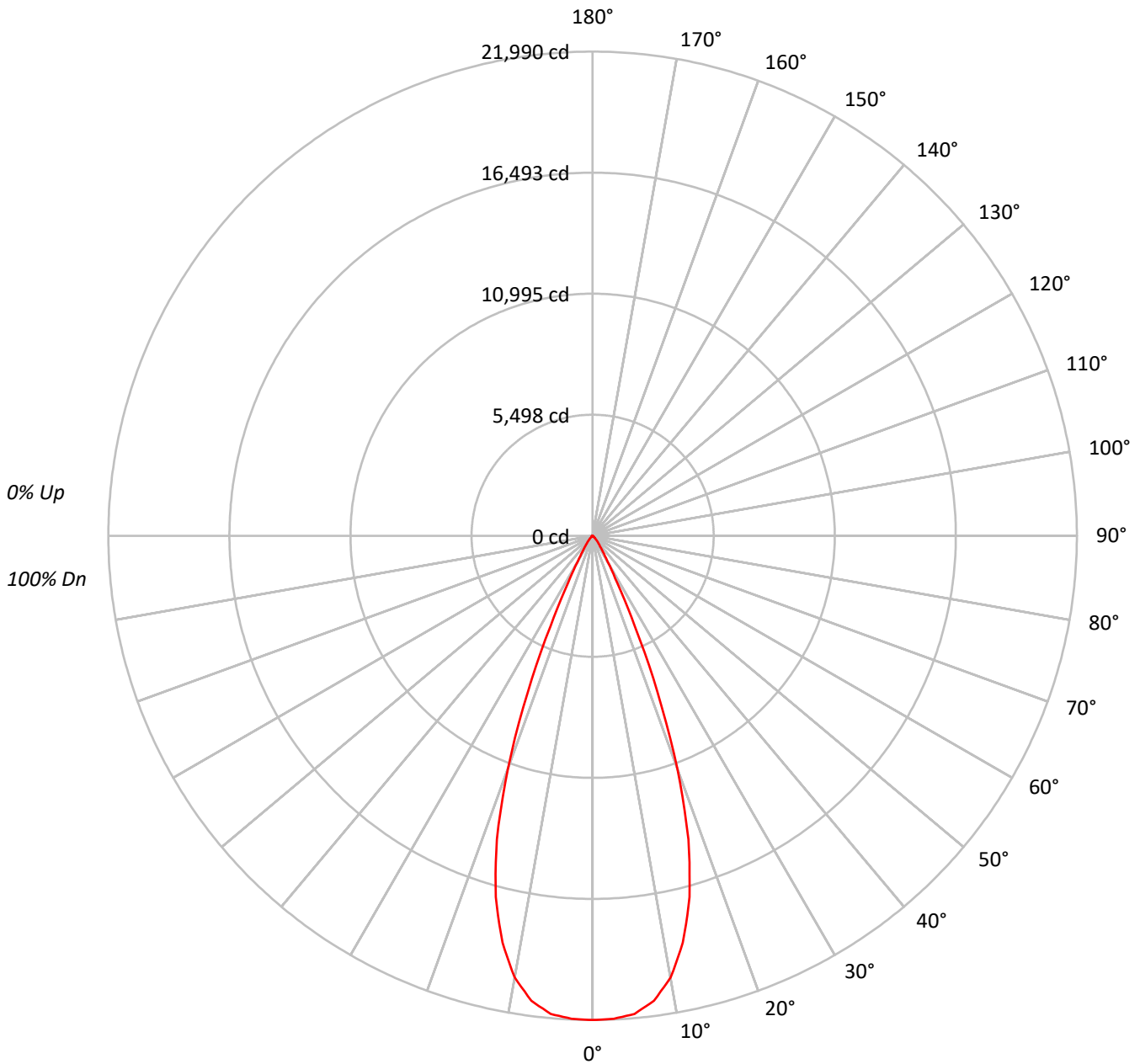
Input Watts (W): 98.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



Downlight

TEST NUMBER: P755515  
CATALOG NUMBER: LD4D90BD010-EU4DR4070959030-4LBS1H

### Luminous Intensity Polar Plot





TEST NUMBER: P755515  
 CATALOG NUMBER: LD4D90BD010-EU4DR4070959030-4LBS1H

**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	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°	2402666
5°	2390994
10°	2260009
15°	1921293
20°	1309500
25°	546383
30°	171797
35°	79843
40°	44158
45°	20242
50°	9825
55°	5391
60°	2797
65°	1008
70°	415
75°	0
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 20242 cd/sqm



TEST NUMBER: P755515

CATALOG NUMBER: LD4D90BD010-EU4DR4070959030-4LBS1H

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2035.6	21.6
10°-20°	4560.2	48.3
20°-30°	2282.7	24.2
30°-40°	418.4	4.4
40°-50°	115.4	1.2
50°-60°	27.1	0.3
60°-70°	5.2	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°	8878.5	94.0
0°-40°	9297.0	98.4
0°-60°	9439.5	99.9
0°-90°	9444.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9444.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	21990	
5°	21800	###
15°	16985	4560
25°	4532	2283
35°	599	418
45°	131	115
55°	28	27
65°	4	5
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P755515

CATALOG NUMBER: LD4D90BD010-EU4DR4070959030-4LBS1H

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	21990.2
2.5°	21958.1
5°	21800.1
7.5°	21296.5
10°	20370.3
12.5°	18926.4
15°	16985.3
17.5°	14461.0
20°	11262.3
22.5°	7678.2
25°	4532.2
27.5°	2395.8
30°	1361.7
32.5°	880.0
35°	598.6
37.5°	427.8
40°	309.6
42.5°	212.0
45°	131.0
47.5°	83.5
50°	57.8
52.5°	41.1
55°	28.3
57.5°	18.0
60°	12.8
62.5°	7.7
65°	3.9
67.5°	2.6
70°	1.3
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

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report





Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



— 0°-180°

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)