

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



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: P755944

Luminaire Tested: LD4D90BD010-EU4DR6570959050-4LBS1H

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P755944
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-147)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D90BD010-EU4DR6570959050-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8445.7 lumens
Efficiency: N/A
Efficacy: 85.4 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.96
Luminous Opening: Circular (Dia: 0.48' x H: 0')
CIE Type: Direct

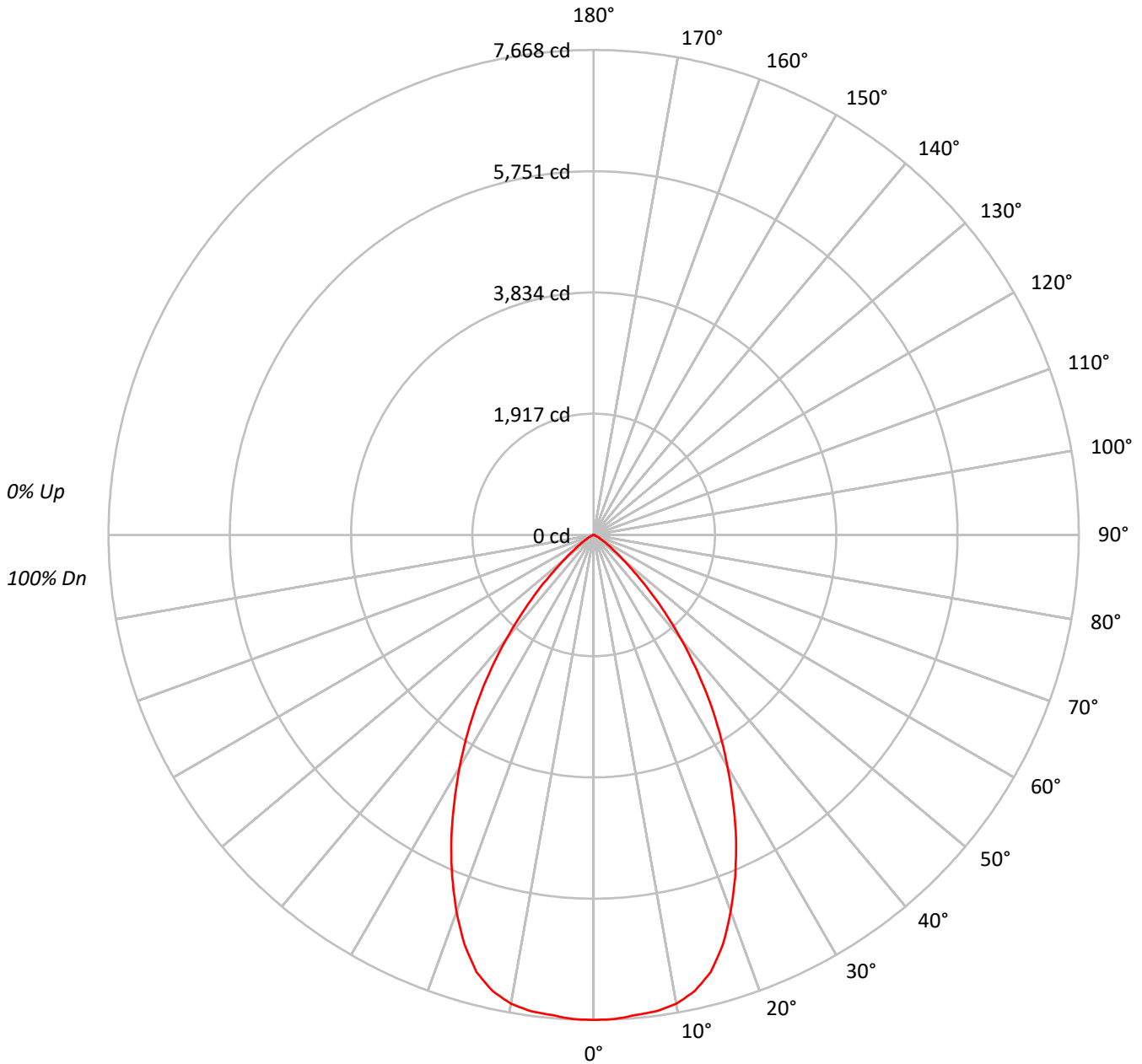
Input Watts (W): 98.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

TEST NUMBER: P755944
CATALOG NUMBER: LD4D90BD010-EU4DR6570959050-4LBS1H

Luminous Intensity Polar Plot





TEST NUMBER: P755944

CATALOG NUMBER: LD4D90BD010-EU4DR6570959050-4LBS1H

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			100																
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	93			93																
2	107	102	97	94	105	100	96	92	97	93	90	94	91	88	91	89	87	85			85																
3	101	94	88	84	99	92	87	83	90	86	82	87	84	81	85	82	80	78			78																
4	95	87	81	76	93	86	80	76	84	79	75	82	77	74	80	76	73	72			72																
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	75	71	68	66			66																
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62	61			61																
7	80	70	64	59	79	69	63	59	68	63	59	67	62	58	66	61	58	56			56																
8	76	66	59	55	75	65	59	55	64	58	54	63	58	54	62	57	54	52			52																
9	72	61	55	51	71	61	55	51	60	54	51	59	54	50	58	54	50	49			49																
10	68	58	52	47	67	57	51	47	57	51	47	56	51	47	55	50	47	46			46																

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	447870
5°	446737
10°	446358
15°	432597
20°	393827
25°	343196
30°	285442
35°	226171
40°	163239
45°	103129
50°	53753
55°	28572
60°	15010
65°	8250
70°	3466
75°	3814
80°	2657
85°	2278

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 103129 cd/sqm



TEST NUMBER: P755944

CATALOG NUMBER: LD4D90BD010-EU4DR6570959050-4LBS1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	725.2	8.6
10°-20°	1985.9	23.5
20°-30°	2427.4	28.7
30°-40°	1969.5	23.3
40°-50°	981.5	11.6
50°-60°	273.7	3.2
60°-70°	62.2	0.7
70°-80°	16.2	0.2
80°-90°	4.1	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°	5138.5	60.8
0°-40°	7108.0	84.2
0°-60°	8363.2	99.0
0°-90°	8445.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8445.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7668	
5°	7620	725
15°	7155	1986
25°	5326	2427
35°	3172	1970
45°	1249	981
55°	281	274
65°	60	62
75°	17	16
85°	3	4
90°	0	



TEST NUMBER: P755944

CATALOG NUMBER: LD4D90BD010-EU4DR6570959050-4LBS1H

CANDELA DISTRIBUTION (FULL):

	0°
0°	7668.5
2.5°	7662.8
5°	7620.0
7.5°	7595.2
10°	7526.5
12.5°	7386.7
15°	7154.6
17.5°	6791.8
20°	6336.5
22.5°	5845.2
25°	5325.7
27.5°	4770.1
30°	4232.6
32.5°	3701.8
35°	3172.2
37.5°	2643.7
40°	2141.1
42.5°	1670.0
45°	1248.6
47.5°	870.0
50°	591.6
52.5°	407.9
55°	280.6
57.5°	189.3
60°	128.5
62.5°	89.0
65°	59.7
67.5°	30.4
70°	20.3
72.5°	19.2
75°	16.9
77.5°	11.3
80°	7.9
82.5°	5.6
85°	3.4
87.5°	2.3
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)