

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: P755915

Luminaire Tested: LD4D90BD010-EU4DR6570959035-4LBDP1LI

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P755915
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-EU4DR6570959035-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7991.2 lumens
Efficiency: N/A
Efficacy: 80.8 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_{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

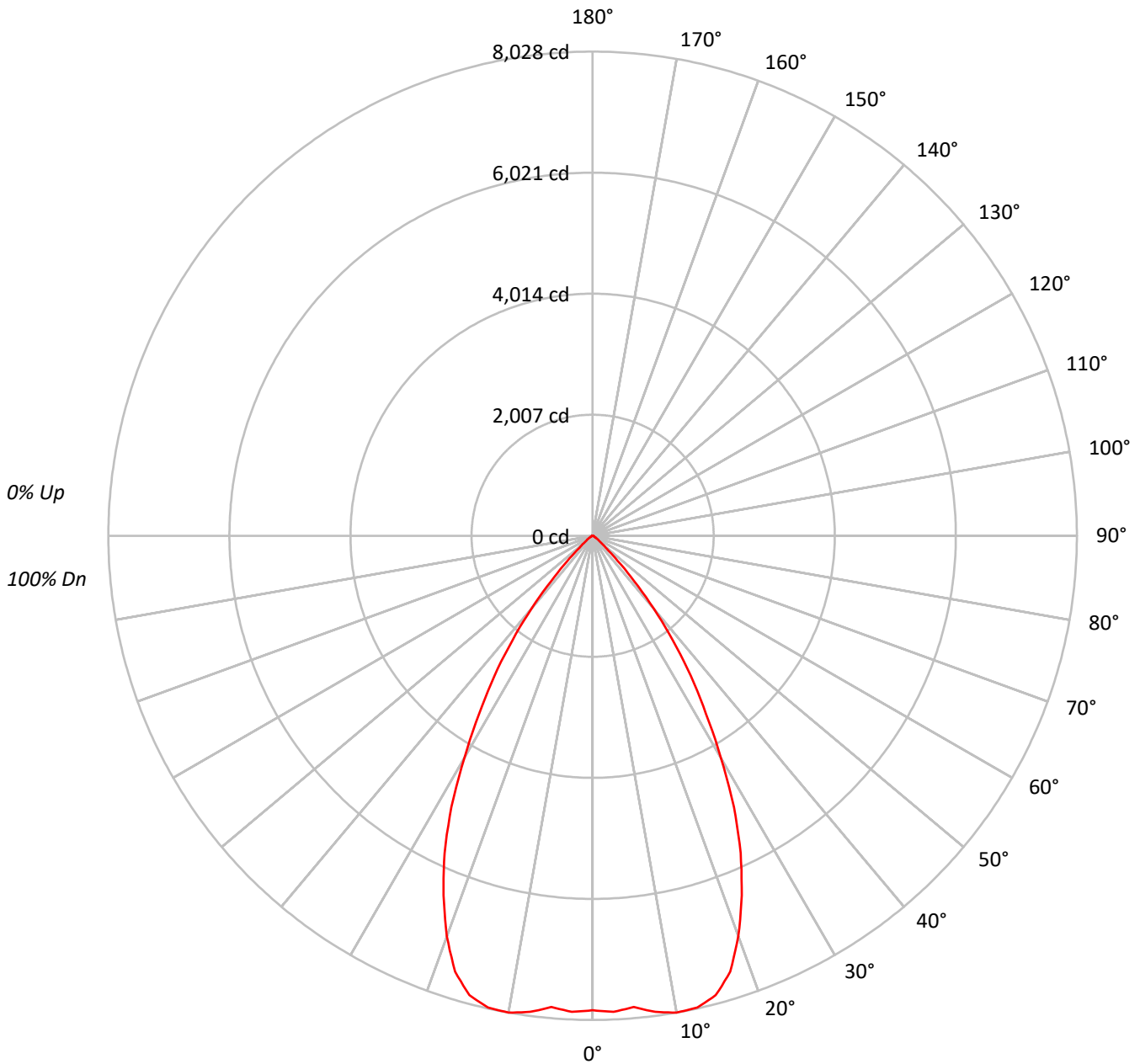


Downlight

TEST NUMBER: P755915

CATALOG NUMBER: LD4D90BD010-EU4DR6570959035-4LBDP1LI

Luminous Intensity Polar Plot





TEST NUMBER: P755915

CATALOG NUMBER: LD4D90BD010-EU4DR6570959035-4LBDP1LI

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	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°	859653
5°	860370
10°	890655
15°	892127
20°	821352
25°	699839
30°	535753
35°	378500
40°	223415
45°	90702
50°	32874
55°	18325
60°	10511
65°	5791
70°	6070
75°	4728
80°	4908
85°	4262

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 90702 cd/sqm



TEST NUMBER: P755915

CATALOG NUMBER: LD4D90BD010-EU4DR6570959035-4LBDP1LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	757.6	9.5
10°-20°	2185.4	27.3
20°-30°	2622.0	32.8
30°-40°	1762.1	22.1
40°-50°	527.5	6.6
50°-60°	93.1	1.2
60°-70°	26.5	0.3
70°-80°	13.0	0.2
80°-90°	4.1	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°	5565.0	69.6
0°-40°	7327.1	91.7
0°-60°	7947.7	99.5
0°-90°	7991.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7991.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7868	
5°	7844	758
15°	7887	2185
25°	5805	2622
35°	2838	1762
45°	587	527
55°	96	93
65°	22	26
75°	11	13
85°	3	4
90°	0	



TEST NUMBER: P755915

CATALOG NUMBER: LD4D90BD010-EU4DR6570959035-4LBDP1LI

CANDELA DISTRIBUTION (FULL):

	0°
0°	7867.9
2.5°	7901.5
5°	7844.5
7.5°	7963.0
10°	8027.8
12.5°	8012.2
15°	7886.9
17.5°	7580.6
20°	7064.0
22.5°	6455.8
25°	5805.1
27.5°	5070.5
30°	4246.5
32.5°	3499.6
35°	2837.7
37.5°	2183.6
40°	1566.4
42.5°	1023.0
45°	587.0
47.5°	310.8
50°	193.4
52.5°	134.2
55°	96.2
57.5°	69.3
60°	48.1
62.5°	31.3
65°	22.4
67.5°	20.1
70°	19.0
72.5°	14.5
75°	11.2
77.5°	10.1
80°	7.8
82.5°	5.6
85°	3.4
87.5°	2.2
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)