

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: P755434

Luminaire Tested: LD4D90BD010-EU4DR3570959030-4LBDP1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P755434
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-20)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D90BD010-EU4DR3570959030-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 35° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8620.1 lumens
Efficiency: N/A
Efficacy: 87.2 lumens/watt
Spacing Criteria (0/90/45): 0.6 / 0.6 / 0.54
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

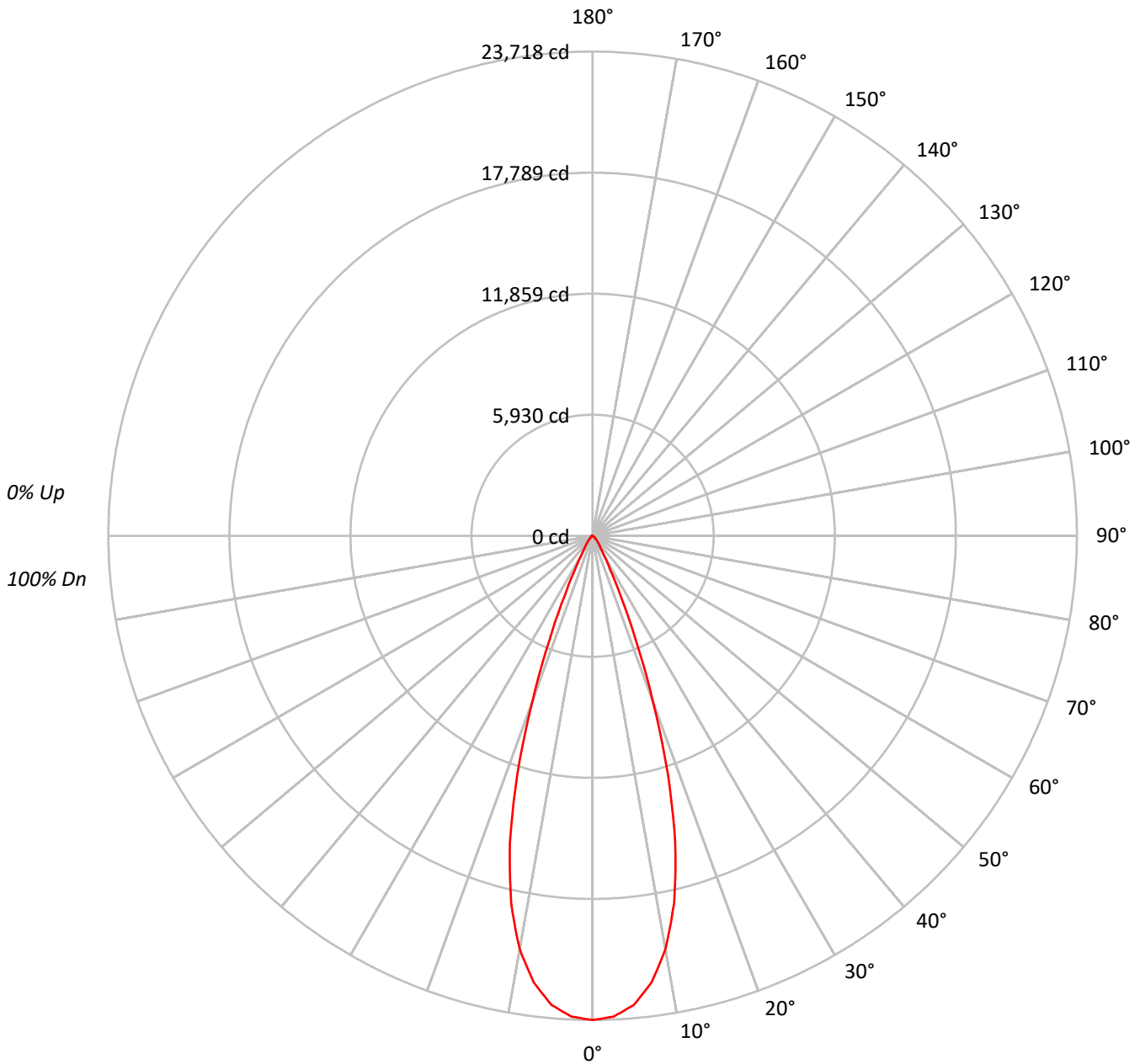


Downlight

TEST NUMBER: P755434

CATALOG NUMBER: LD4D90BD010-EU4DR3570959030-4LBDP1LI

Luminous Intensity Polar Plot





TEST NUMBER: P755434

CATALOG NUMBER: LD4D90BD010-EU4DR3570959030-4LBDP1LI

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2591457
5°	2530570
10°	2280712
15°	1770194
20°	1004028
25°	390613
30°	145731
35°	79883
40°	52203
45°	31784
50°	20228
55°	14287
60°	10467
65°	5688
70°	415
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 31784 cd/sqm



TEST NUMBER: P755434

CATALOG NUMBER: LD4D90BD010-EU4DR3570959030-4LBDP1LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2122.0	24.6
10°-20°	4143.1	48.1
20°-30°	1689.7	19.6
30°-40°	404.4	4.7
40°-50°	168.5	2.0
50°-60°	69.8	0.8
60°-70°	21.8	0.3
70°-80°	0.5	0.0
80°-90°	0.4	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°	7954.8	92.3
0°-40°	8359.1	97.0
0°-60°	8597.4	99.7
0°-90°	8620.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8620.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	23718	
5°	23073	###
15°	15650	4143
25°	3240	1690
35°	599	404
45°	206	169
55°	75	70
65°	22	22
75°	0	1
85°	0	0
90°	0	



TEST NUMBER: P755434

CATALOG NUMBER: LD4D90BD010-EU4DR3570959030-4LBDP1LI

CANDELA DISTRIBUTION (FULL):

0°	
0°	23718.1
2.5°	23575.8
5°	23072.7
7.5°	22069.0
10°	20556.9
12.5°	18427.9
15°	15649.5
17.5°	12251.6
20°	8635.1
22.5°	5506.2
25°	3240.1
27.5°	1831.5
30°	1155.1
32.5°	811.0
35°	598.9
37.5°	463.1
40°	366.0
42.5°	282.0
45°	205.7
47.5°	153.9
50°	119.0
52.5°	94.4
55°	75.0
57.5°	60.8
60°	47.9
62.5°	34.9
65°	22.0
67.5°	7.8
70°	1.3
72.5°	1.3
75°	0.0
77.5°	0.0
80°	0.0
82.5°	1.3
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)