

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: P744718

Luminaire Tested: LD4D20D010-EU4DR7020359024-4LBCSSQMMS

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P744718
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-76)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D20D010-EU4DR7020359024-4LBCSSQMMS
Description: 4 INCH SQAURE SHALLOW CAST MATTE METALLIC SILVER TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1597.2 lumens
Efficiency: N/A
Efficacy: 69.1 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.04
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 23.1
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



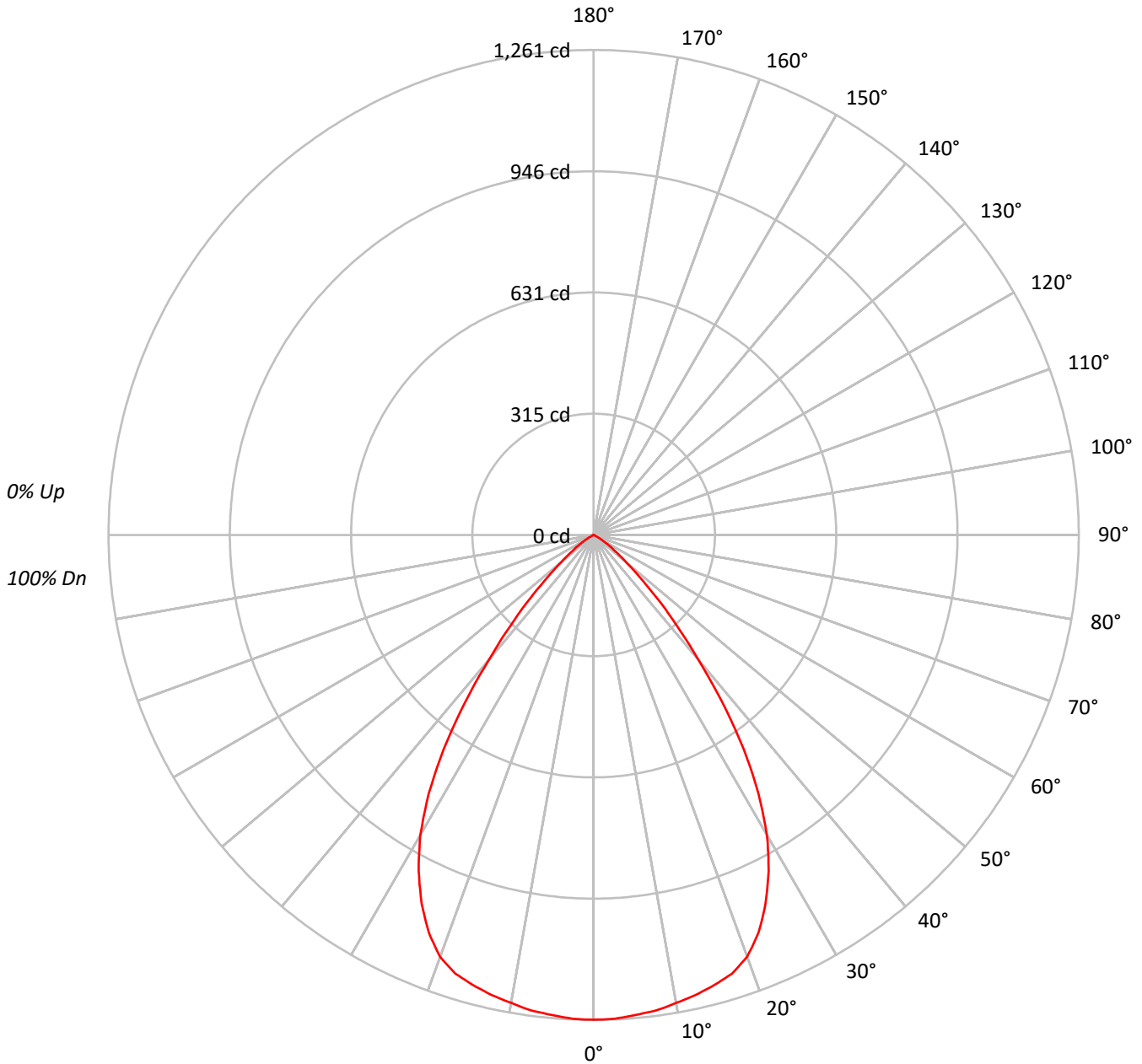
Downlight



TEST NUMBER: P744718

CATALOG NUMBER: LD4D20D010-EU4DR7020359024-4LBCSSQMMS

Luminous Intensity Polar Plot





TEST NUMBER: P744718

CATALOG NUMBER: LD4D20D010-EU4DR7020359024-4LBCSSQMMS

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	106	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	85	82	87	84	81	85	82	79	78			78																
4	95	87	81	76	93	86	80	76	83	78	75	81	77	74	79	76	73	71			71																
5	89	80	74	69	88	79	73	69	78	72	68	76	71	68	74	70	67	65			65																
6	84	75	68	63	83	74	68	63	72	67	63	71	66	62	69	65	62	60			60																
7	80	69	63	58	78	69	62	58	67	62	58	66	61	57	65	61	57	56			56																
8	75	65	58	54	74	64	58	54	63	57	53	62	57	53	61	56	53	51			51																
9	71	61	54	50	70	60	54	50	59	53	50	58	53	49	57	53	49	48			48																
10	67	57	50	46	66	56	50	46	55	50	46	55	50	46	54	49	46	44			44																

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	137734
5°	137394
10°	137096
15°	137062
20°	135714
25°	127488
30°	113661
35°	90620
40°	60176
45°	35972
50°	18647
55°	9810
60°	3474
65°	52
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 35972 cd/sqm



TEST NUMBER: P744718

CATALOG NUMBER: LD4D20D010-EU4DR7020359024-4LBCSSQMMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.1	7.5
10°-20°	341.7	21.4
20°-30°	482.0	30.2
30°-40°	416.1	26.1
40°-50°	186.3	11.7
50°-60°	48.8	3.1
60°-70°	3.2	0.2
70°-80°	0.0	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°	942.8	59.0
0°-40°	1358.9	85.1
0°-60°	1594.0	99.8
0°-90°	1597.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1597.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1261	
5°	1253	119
15°	1212	342
25°	1058	482
35°	679	416
45°	233	186
55°	52	49
65°	0	3
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P744718

CATALOG NUMBER: LD4D20D010-EU4DR7020359024-4LBCSSQMMS

CANDELA DISTRIBUTION (FULL):

	0°
0°	1260.6
2.5°	1259.3
5°	1252.7
7.5°	1247.3
10°	1235.7
12.5°	1225.3
15°	1211.7
17.5°	1196.0
20°	1167.2
22.5°	1119.8
25°	1057.5
27.5°	985.2
30°	900.9
32.5°	797.7
35°	679.4
37.5°	548.8
40°	421.9
42.5°	320.6
45°	232.8
47.5°	160.5
50°	109.7
52.5°	75.7
55°	51.5
57.5°	31.1
60°	15.9
62.5°	5.0
65°	0.2
67.5°	0.0
70°	0.0
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)