

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: P742358

Luminaire Tested: LD4D10D010-EU4DR450210IC9030-4LBCSSQMMS

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P742358
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D10D010-EU4DR450210IC9030-4LBCSSQMMS
Description: 4 INCH SQAURE SHALLOW CAST MATTE METALLIC SILVER TRIM, WITH 45° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 981.6 lumens
Efficiency: N/A
Efficacy: 83.9 lumens/watt
Spacing Criteria (0/90/45): 0.75 / 0.75 / 0.69
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
Input Voltage (V): NR
Input Current (Ain): 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

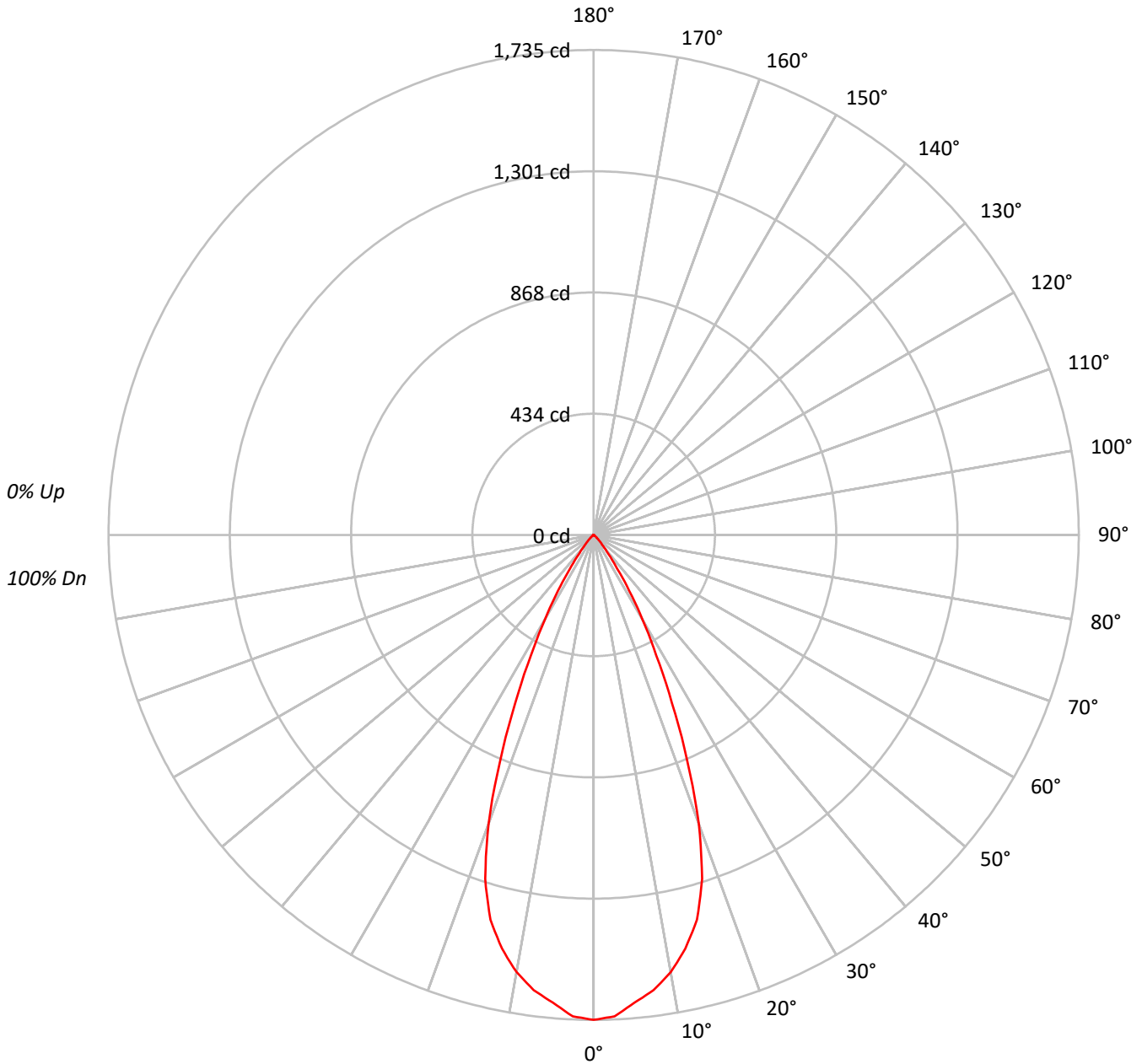


Downlight



TEST NUMBER: P742358
CATALOG NUMBER: LD4D10D010-EU4DR450210IC9030-4LBCSSQMMS

Luminous Intensity Polar Plot





TEST NUMBER: P742358

CATALOG NUMBER: LD4D10D010-EU4DR450210IC9030-4LBCSSQMMS

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	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	114	112	110	108	112	110	108	106	106	104	103	102	101	100	98	98	97	95									95																		
2	109	105	102	99	107	103	100	98	100	98	95	97	95	93	95	93	91	90									90																		
3	105	99	95	91	103	98	94	91	95	92	89	93	90	88	91	89	87	85									85																		
4	100	94	89	85	99	93	88	85	91	87	84	89	86	83	87	84	82	81									81																		
5	96	89	84	80	95	88	83	80	86	82	79	85	81	79	83	80	78	77									77																		
6	92	85	80	76	91	84	79	76	83	78	75	81	77	75	80	77	74	73									73																		
7	89	81	75	72	87	80	75	72	79	74	71	78	74	71	77	73	71	69									69																		
8	85	77	72	68	84	76	71	68	75	71	68	74	70	67	73	70	67	66									66																		
9	82	73	68	65	81	73	68	65	72	68	65	71	67	64	71	67	64	63									63																		
10	79	70	65	62	78	70	65	62	69	65	62	68	64	61	68	64	61	60									60																		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	189546
5°	184150
10°	176183
15°	161246
20°	127923
25°	79868
30°	44018
35°	19767
40°	7788
45°	3662
50°	1751
55°	914
60°	459
65°	103
70°	32
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3662 cd/sqm



TEST NUMBER: P742358

CATALOG NUMBER: LD4D10D010-EU4DR450210IC9030-4LBCSSQMMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.8	16.1
10°-20°	388.3	39.6
20°-30°	307.5	31.3
30°-40°	102.4	10.4
40°-50°	20.3	2.1
50°-60°	4.6	0.5
60°-70°	0.7	0.1
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°	853.5	87.0
0°-40°	955.9	97.4
0°-60°	980.9	99.9
0°-90°	981.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	981.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1735	
5°	1679	158
15°	1426	388
25°	662	307
35°	148	102
45°	24	20
55°	5	5
65°	0	1
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P742358
CATALOG NUMBER: LD4D10D010-EU4DR450210IC9030-4LBCSSQMMS

CANDELA DISTRIBUTION (FULL):

	0°
0°	1734.8
2.5°	1723.6
5°	1679.0
7.5°	1642.4
10°	1588.0
12.5°	1515.7
15°	1425.5
17.5°	1289.9
20°	1100.2
22.5°	874.3
25°	662.5
27.5°	485.1
30°	348.9
32.5°	237.3
35°	148.2
37.5°	87.9
40°	54.6
42.5°	35.9
45°	23.7
47.5°	15.3
50°	10.3
52.5°	6.8
55°	4.8
57.5°	3.2
60°	2.1
62.5°	1.1
65°	0.4
67.5°	0.1
70°	0.1
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)