

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: P742018

Luminaire Tested: LD4D10D010-EU4DR200210IC9050-4LBSQW1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P742018
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2310-195-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D10D010-EU4DR200210IC9050-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 20° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 981.2 lumens
Efficiency: N/A
Efficacy: 83.9 lumens/watt
Spacing Criteria (0/90/45): 0.34 / 0.34 / 0.36
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

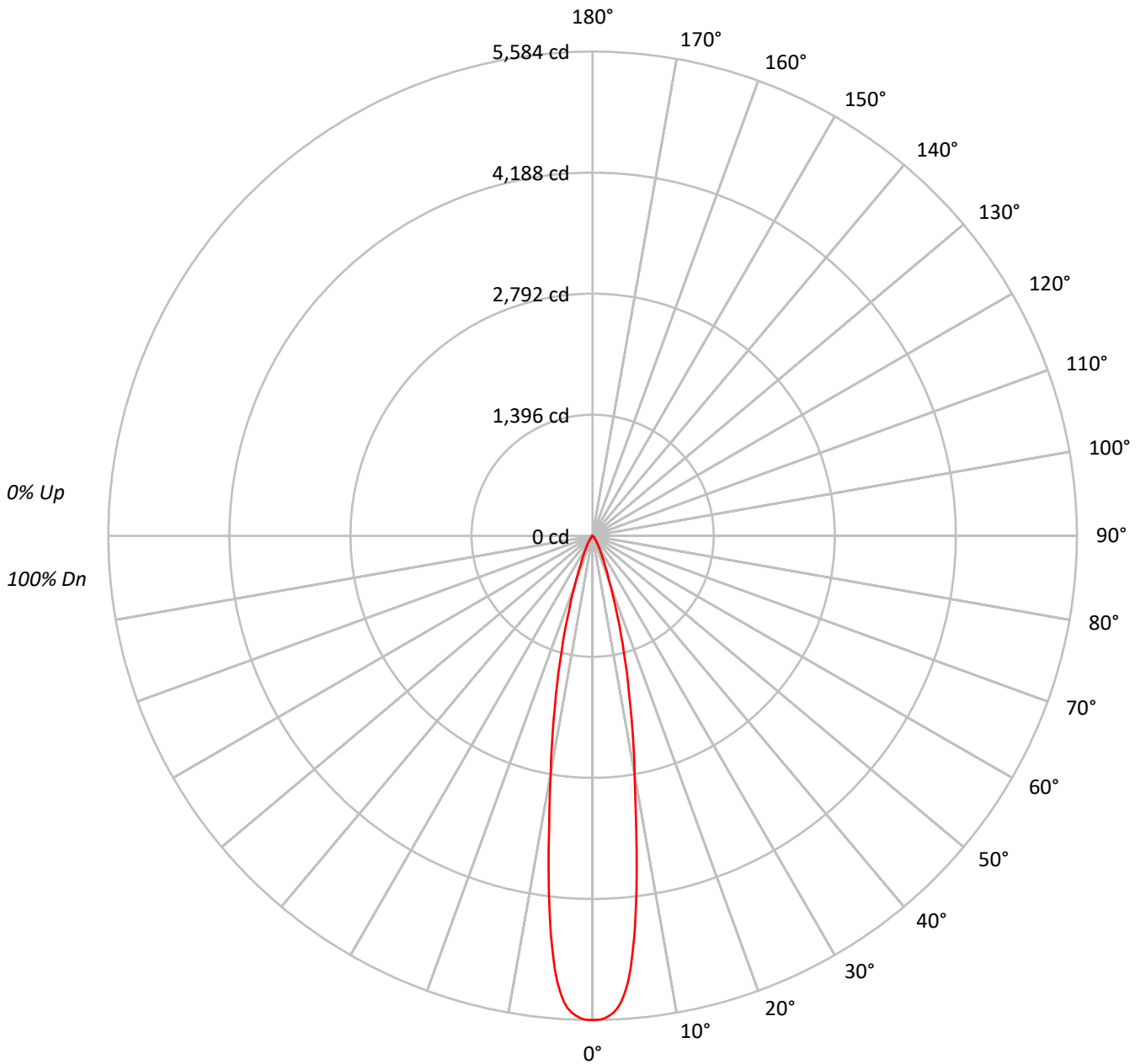


Downlight



TEST NUMBER: P742018
CATALOG NUMBER: LD4D10D010-EU4DR200210IC9050-4LBSQW1MW

Luminous Intensity Polar Plot





TEST NUMBER: P742018

CATALOG NUMBER: LD4D10D010-EU4DR200210IC9050-4LBSQW1MW

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	115	113	111	109	113	111	109	108	107	106	104	103	102	101	100	99	98	97			
2	111	108	105	102	109	106	104	101	103	101	99	100	99	97	98	96	95	94			
3	108	103	100	97	106	102	99	96	100	97	95	97	95	93	95	93	92	91			
4	105	99	96	93	103	98	95	92	96	93	91	95	92	90	93	91	89	88			
5	102	96	92	89	100	95	91	89	94	90	88	92	89	87	91	88	86	85			
6	99	93	89	86	98	92	88	86	91	87	85	90	87	84	88	86	84	83			
7	96	90	86	83	95	89	86	83	88	85	82	87	84	82	86	84	82	81			
8	94	87	83	81	93	87	83	80	86	83	80	85	82	80	84	82	80	79			
9	91	85	81	78	91	85	81	78	84	80	78	83	80	78	82	80	78	77			
10	89	83	79	76	88	82	79	76	82	78	76	81	78	76	81	78	76	75			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	610167
5°	550485
10°	308963
15°	157049
20°	66496
25°	30694
30°	16250
35°	8750
40°	4678
45°	2766
50°	1598
55°	857
60°	546
65°	388
70°	160
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2766 cd/sqm



TEST NUMBER: P742018

CATALOG NUMBER: LD4D10D010-EU4DR200210IC9050-4LBSQW1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	397.6	40.5
10°-20°	391.5	39.9
20°-30°	127.9	13.0
30°-40°	43.5	4.4
40°-50°	14.6	1.5
50°-60°	4.4	0.5
60°-70°	1.5	0.2
70°-80°	0.1	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°	917.0	93.5
0°-40°	960.6	97.9
0°-60°	979.6	99.8
0°-90°	981.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	981.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5584	
5°	5019	398
15°	1388	392
25°	255	128
35°	66	44
45°	18	15
55°	4	4
65°	2	1
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P742018

CATALOG NUMBER: LD4D10D010-EU4DR200210IC9050-4LBSQW1MW

CANDELA DISTRIBUTION (FULL):

	0°
0°	5584.5
0.5°	5584.5
1°	5577.5
1.5°	5563.6
2°	5538.2
2.5°	5504.4
3°	5456.7
3.5°	5390.0
4°	5291.1
4.5°	5170.7
5°	5019.1
5.5°	4819.7
6°	4615.3
6.5°	4381.0
7°	4151.8
7.5°	3883.3
8°	3643.6
8.5°	3402.4
9°	3179.6
9.5°	2975.2
10°	2784.8
12.5°	1999.6
15°	1388.4
17.5°	907.0
20°	571.9
22.5°	370.5
25°	254.6
27.5°	179.0
30°	128.8
32.5°	92.5
35°	65.6
37.5°	45.7
40°	32.8
42.5°	23.9
45°	17.9
47.5°	13.9
50°	9.4
52.5°	6.0
55°	4.5
57.5°	3.5
60°	2.5
62.5°	2.0
65°	1.5



TEST NUMBER: P742018
CATALOG NUMBER: LD4D10D010-EU4DR200210IC9050-4LBSQW1MW

CANDELA DISTRIBUTION (continued):

	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





— 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



67.5°		1.0
70°		0.5

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

Scaled Data Report



(END OF REPORT)