

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: P739691

Luminaire Tested: LD4D02D010-EU4DR700210IC9024-4LBSQW1MW

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P739691
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-73)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D02D010-EU4DR700210IC9024-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 252.6 lumens
Efficiency: N/A
Efficacy: 49.5 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.82
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 5.1
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



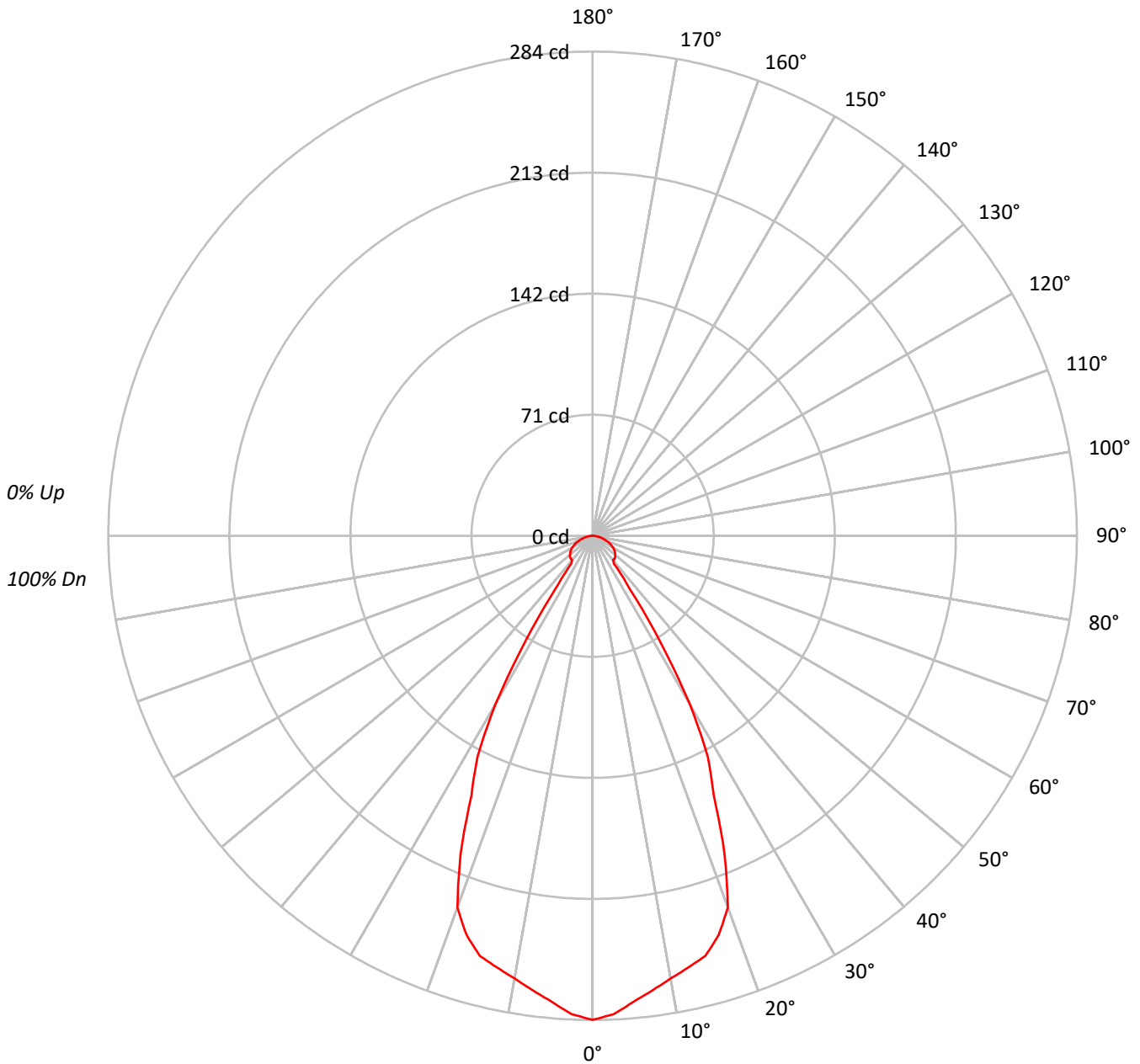
Downlight



TEST NUMBER: P739691

CATALOG NUMBER: LD4D02D010-EU4DR700210IC9024-4LBSQW1MW

Luminous Intensity Polar Plot





TEST NUMBER: P739691

CATALOG NUMBER: LD4D02D010-EU4DR700210IC9024-4LBSQW1MW

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	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91																			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83																			
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76																			
4	94	86	80	75	92	85	79	74	82	77	73	80	76	73	78	75	72	70																			
5	89	80	74	69	87	79	73	68	77	72	68	75	71	67	74	70	67	65																			
6	85	75	68	64	83	74	68	64	73	67	63	71	66	63	70	66	62	61																			
7	80	70	64	59	79	70	64	59	68	63	59	67	62	59	66	62	58	57																			
8	77	66	60	56	75	66	60	56	65	59	55	64	59	55	63	58	55	53																			
9	73	63	57	52	72	62	56	52	61	56	52	60	55	52	60	55	52	50																			
10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	48																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	31019
5°	30096
10°	29257
15°	28867
20°	26964
25°	20253
30°	14320
35°	5069
40°	2667
45°	2843
50°	2941
55°	3010
60°	3016
65°	2947
70°	2779
75°	2575
80°	2328
85°	1880

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 60°
 Luminance: 3016 cd/sqm



TEST NUMBER: P739691

CATALOG NUMBER: LD4D02D010-EU4DR700210IC9024-4LBSQW1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.9	10.2
10°-20°	71.0	28.1
20°-30°	78.2	31.0
30°-40°	29.9	11.8
40°-50°	14.1	5.6
50°-60°	14.0	5.6
60°-70°	11.2	4.4
70°-80°	6.5	2.6
80°-90°	1.8	0.7
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°	175.1	69.3
0°-40°	204.9	81.1
0°-60°	233.1	92.3
0°-90°	252.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	252.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	284	
5°	274	26
15°	255	71
25°	168	78
35°	38	30
45°	18	14
55°	16	14
65°	11	11
75°	6	6
85°	2	2
90°	0	



TEST NUMBER: P739691

CATALOG NUMBER: LD4D02D010-EU4DR700210IC9024-4LBSQW1MW

CANDELA DISTRIBUTION (FULL):

	0°
0°	283.9
2.5°	280.9
5°	274.4
7.5°	268.9
10°	263.7
12.5°	259.3
15°	255.2
17.5°	245.6
20°	231.9
22.5°	202.3
25°	168.0
27.5°	146.3
30°	113.5
32.5°	73.3
35°	38.0
37.5°	20.5
40°	18.7
42.5°	18.6
45°	18.4
47.5°	18.0
50°	17.3
52.5°	16.6
55°	15.8
57.5°	14.8
60°	13.8
62.5°	12.6
65°	11.4
67.5°	10.1
70°	8.7
72.5°	7.4
75°	6.1
77.5°	4.8
80°	3.7
82.5°	2.6
85°	1.5
87.5°	0.6
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)