

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: P742724

Luminaire Tested: LD4D10D010-EU4DR700210IC9024-4LBDP1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P742724
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: LD4D10D010-EU4DR700210IC9024-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 512.0 lumens
Efficiency: N/A
Efficacy: 43.8 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): 11.7
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



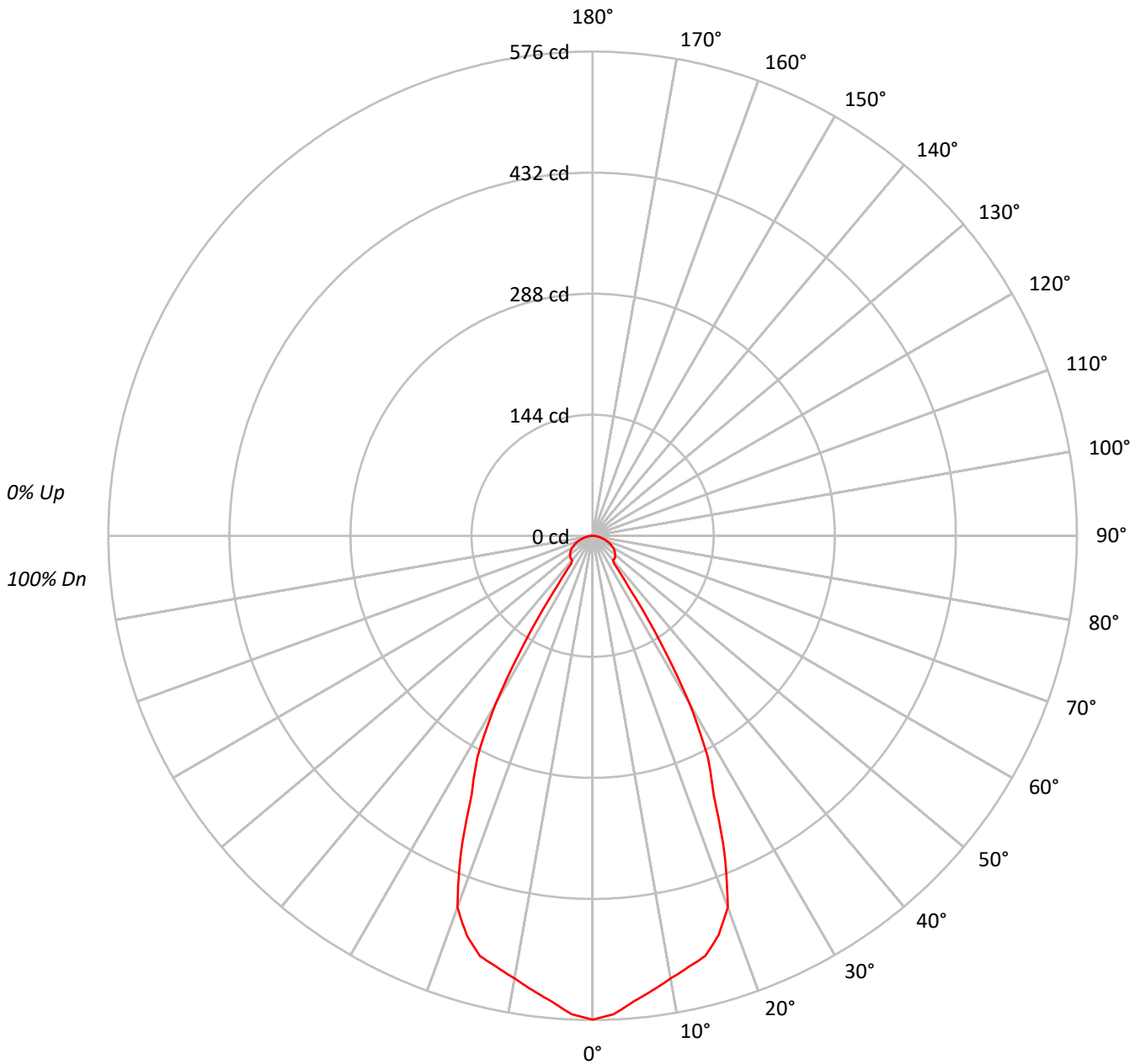
Downlight



TEST NUMBER: P742724

CATALOG NUMBER: LD4D10D010-EU4DR700210IC9024-4LBDP1B

Luminous Intensity Polar Plot





TEST NUMBER: P742724

CATALOG NUMBER: LD4D10D010-EU4DR700210IC9024-4LBDP1B

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	69	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°	62901
5°	61025
10°	59334
15°	58548
20°	54672
25°	41073
30°	29043
35°	10284
40°	5406
45°	5764
50°	5966
55°	6077
60°	6119
65°	5972
70°	5654
75°	5235
80°	4656
85°	3761

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 57.5°
 Luminance: 6121 cd/sqm



TEST NUMBER: P742724

CATALOG NUMBER: LD4D10D010-EU4DR700210IC9024-4LBDP1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.5	10.3
10°-20°	144.0	28.1
20°-30°	158.6	31.0
30°-40°	60.6	11.8
40°-50°	28.6	5.6
50°-60°	28.4	5.6
60°-70°	22.8	4.4
70°-80°	13.1	2.6
80°-90°	3.6	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°	355.0	69.3
0°-40°	415.6	81.2
0°-60°	472.6	92.3
0°-90°	512.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	512.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	576	
5°	556	52
15°	518	144
25°	341	159
35°	77	61
45°	37	29
55°	32	28
65°	23	23
75°	12	13
85°	3	4
90°	0	



TEST NUMBER: P742724

CATALOG NUMBER: LD4D10D010-EU4DR700210IC9024-4LBDP1B

CANDELA DISTRIBUTION (FULL):

	0°
0°	575.7
2.5°	569.7
5°	556.4
7.5°	545.4
10°	534.8
12.5°	525.7
15°	517.6
17.5°	498.0
20°	470.2
22.5°	410.2
25°	340.7
27.5°	296.6
30°	230.2
32.5°	148.7
35°	77.1
37.5°	41.7
40°	37.9
42.5°	37.6
45°	37.3
47.5°	36.4
50°	35.1
52.5°	33.5
55°	31.9
57.5°	30.1
60°	28.0
62.5°	25.6
65°	23.1
67.5°	20.4
70°	17.7
72.5°	15.0
75°	12.4
77.5°	9.7
80°	7.4
82.5°	5.2
85°	3.0
87.5°	1.2
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)