

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: P746215

Luminaire Tested: LD4D30D010-EU4DR4520359027-4LBDP1B

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P746215  
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: LD4D30D010-EU4DR4520359027-4LBDP1B  
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 45° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2341.7 lumens  
Efficiency: N/A  
Efficacy: 80.7 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): 29  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

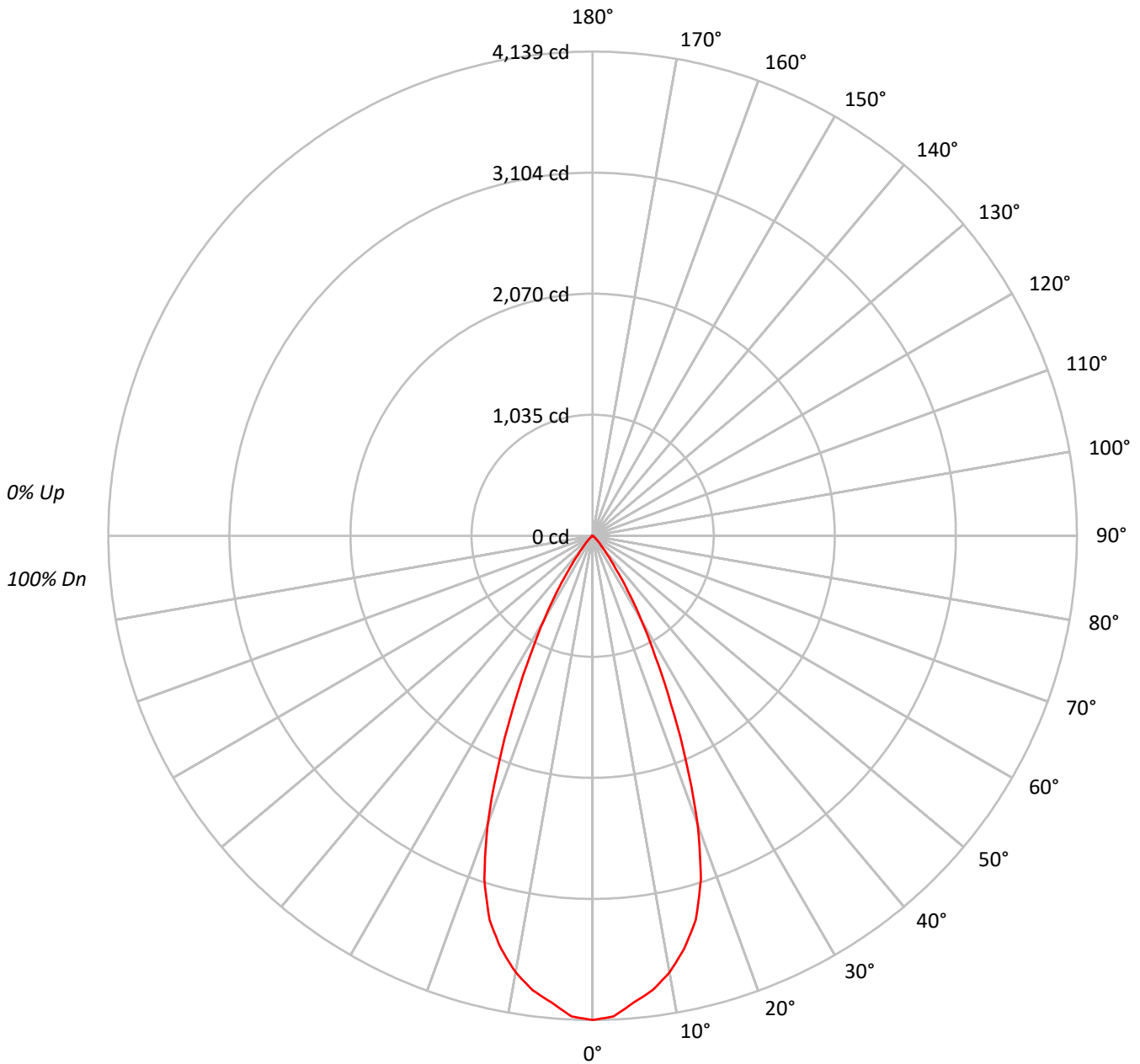


Downlight



TEST NUMBER: P746215  
CATALOG NUMBER: LD4D30D010-EU4DR4520359027-4LBDP1B

### Luminous Intensity Polar Plot





TEST NUMBER: P746215

CATALOG NUMBER: LD4D30D010-EU4DR4520359027-4LBDP1B

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

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	452241
5°	439360
10°	420353
15°	384704
20°	305205
25°	190539
30°	105018
35°	47164
40°	18570
45°	8761
50°	4148
55°	2172
60°	1071
65°	259
70°	96
75°	0
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 8761 cd/sqm



TEST NUMBER: P746215

CATALOG NUMBER: LD4D30D010-EU4DR4520359027-4LBDP1B

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	376.4	16.1
10°-20°	926.3	39.6
20°-30°	733.6	31.3
30°-40°	244.3	10.4
40°-50°	48.5	2.1
50°-60°	11.0	0.5
60°-70°	1.6	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°	2036.3	87.0
0°-40°	2280.6	97.4
0°-60°	2340.1	99.9
0°-90°	2341.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2341.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4139	
5°	4006	376
15°	3401	926
25°	1580	734
35°	354	244
45°	57	48
55°	11	11
65°	1	2
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P746215  
CATALOG NUMBER: LD4D30D010-EU4DR4520359027-4LBDP1B

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4139.1
2.5°	4112.1
5°	4005.9
7.5°	3918.4
10°	3788.8
12.5°	3616.2
15°	3401.0
17.5°	3077.4
20°	2624.9
22.5°	2085.8
25°	1580.5
27.5°	1157.4
30°	832.4
32.5°	566.1
35°	353.6
37.5°	209.6
40°	130.2
42.5°	85.6
45°	56.7
47.5°	36.4
50°	24.4
52.5°	16.3
55°	11.4
57.5°	7.5
60°	4.9
62.5°	2.6
65°	1.0
67.5°	0.3
70°	0.3
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)