

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: P744655

Luminaire Tested: LD4D20D010-EU4DR6520359027-4LBDP1B

Issue Date: 2/5/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P744655  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-59)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD4D20D010-EU4DR6520359027-4LBDP1B  
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 65° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1165.6 lumens  
Efficiency: N/A  
Efficacy: 50.5 lumens/watt  
Spacing Criteria (0/90/45): 0.98 / 0.98 / 0.92  
Luminous Opening: Circular (Dia: 0.35' x H: 0')  
CIE Type: Direct

Input Watts (W): 23.1  
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

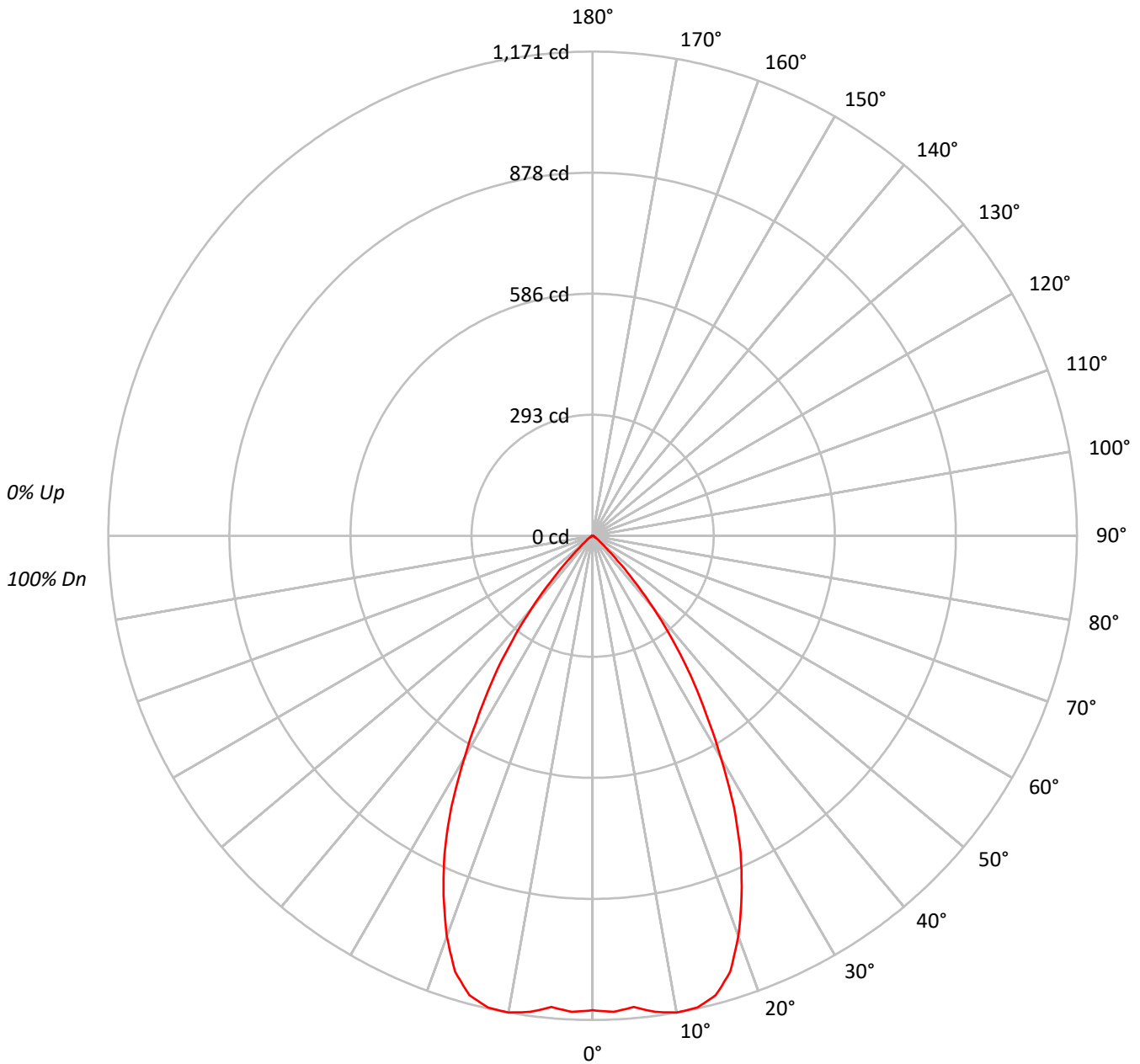


Downlight



TEST NUMBER: P744655  
CATALOG NUMBER: LD4D20D010-EU4DR6520359027-4LBDP1B

### Luminous Intensity Polar Plot





TEST NUMBER: P744655

CATALOG NUMBER: LD4D20D010-EU4DR6520359027-4LBDP1B

**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	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93																			
2	108	103	99	95	106	101	97	94	98	95	92	95	92	90	92	90	88	87																			
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	80																			
4	97	89	84	79	95	88	83	79	86	82	78	84	80	77	82	79	76	75																			
5	92	83	78	73	90	83	77	73	81	76	72	79	75	72	77	74	71	69																			
6	87	78	72	68	86	77	72	68	76	71	67	74	70	67	73	69	66	65																			
7	83	73	67	63	81	73	67	63	71	66	62	70	66	62	69	65	62	60																			
8	79	69	63	59	77	68	63	59	67	62	58	66	62	58	65	61	58	57																			
9	75	65	59	55	74	65	59	55	64	58	55	63	58	55	62	58	54	53																			
10	71	61	56	52	70	61	55	52	60	55	51	59	55	51	59	54	51	50																			

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

	0°
0°	125388
5°	125494
10°	129907
15°	130128
20°	119808
25°	102087
30°	78146
35°	55207
40°	32591
45°	13227
50°	4793
55°	2667
60°	1530
65°	853
70°	894
75°	675
80°	692
85°	627

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 13227 cd/sqm



TEST NUMBER: P744655

CATALOG NUMBER: LD4D20D010-EU4DR6520359027-4LBDP1B

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	110.5	9.5
10°-20°	318.8	27.3
20°-30°	382.5	32.8
30°-40°	257.0	22.1
40°-50°	76.9	6.6
50°-60°	13.6	1.2
60°-70°	3.9	0.3
70°-80°	1.9	0.2
80°-90°	0.6	0.1
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°	811.7	69.6
0°-40°	1068.7	91.7
0°-60°	1159.2	99.5
0°-90°	1165.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1165.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1148	
5°	1144	111
15°	1150	319
25°	847	382
35°	414	257
45°	86	77
55°	14	14
65°	3	4
75°	2	2
85°	0	1
90°	0	



TEST NUMBER: P744655

CATALOG NUMBER: LD4D20D010-EU4DR6520359027-4LBDP1B

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1147.6
2.5°	1152.5
5°	1144.2
7.5°	1161.5
10°	1170.9
12.5°	1168.6
15°	1150.4
17.5°	1105.7
20°	1030.4
22.5°	941.6
25°	846.8
27.5°	739.6
30°	619.4
32.5°	510.4
35°	413.9
37.5°	318.5
40°	228.5
42.5°	149.2
45°	85.6
47.5°	45.3
50°	28.2
52.5°	19.6
55°	14.0
57.5°	10.1
60°	7.0
62.5°	4.6
65°	3.3
67.5°	2.9
70°	2.8
72.5°	2.1
75°	1.6
77.5°	1.5
80°	1.1
82.5°	0.8
85°	0.5
87.5°	0.3
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)