

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: P744648

Luminaire Tested: LD4D20D010-EU4DR6520359024-4LBS1LI

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P744648  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-147)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/2/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD4D20D010-EU4DR6520359024-4LBS1LI  
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 65° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1557.9 lumens  
Efficiency: N/A  
Efficacy: 67.4 lumens/watt  
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.96  
Luminous Opening: Circular (Dia: 0.48' 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

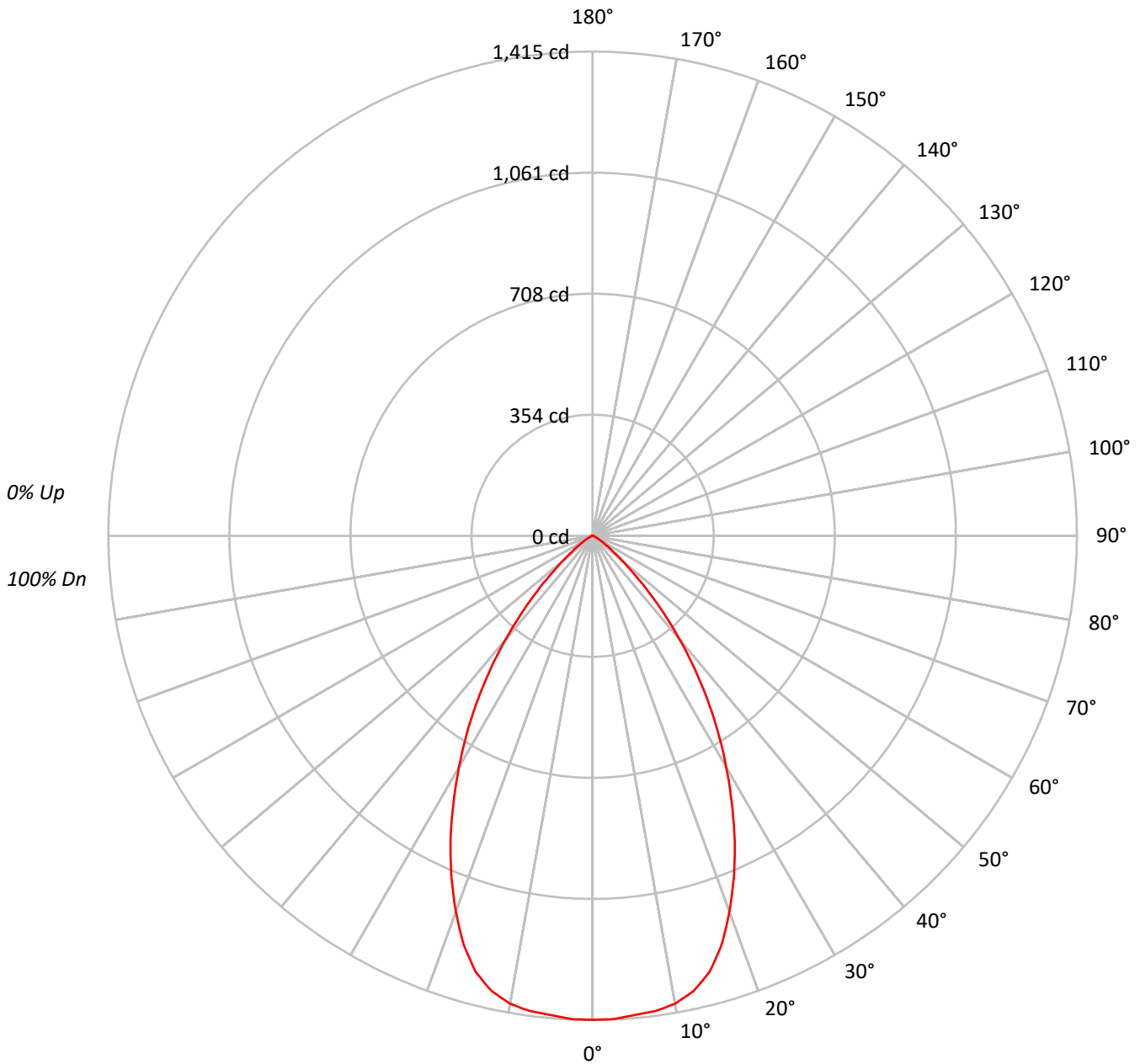


Downlight



TEST NUMBER: P744648  
CATALOG NUMBER: LD4D20D010-EU4DR6520359024-4LBS1LI

### Luminous Intensity Polar Plot





TEST NUMBER: P744648

CATALOG NUMBER: LD4D20D010-EU4DR6520359024-4LBS1LI

**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	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	93																			
2	107	102	97	94	105	100	96	92	97	93	90	94	91	88	91	89	87	85																			
3	101	94	88	84	99	92	87	83	90	86	82	87	84	81	85	82	80	78																			
4	95	87	81	76	93	86	80	76	84	79	75	82	77	74	80	76	73	72																			
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	75	71	68	66																			
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62	61																			
7	80	70	64	59	79	69	63	59	68	63	59	67	62	58	66	61	58	56																			
8	76	66	59	55	75	65	59	55	64	58	54	63	58	54	62	57	54	52																			
9	72	61	55	51	71	61	55	51	60	54	51	59	54	50	58	54	50	49																			
10	68	58	52	47	67	57	51	47	57	51	47	56	51	47	55	50	47	46																			

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

	0°
0°	82624
5°	82412
10°	82339
15°	79801
20°	72650
25°	63307
30°	52656
35°	41724
40°	30115
45°	19022
50°	9913
55°	5264
60°	2768
65°	1520
70°	632
75°	700
80°	471
85°	402

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 19022 cd/sqm



TEST NUMBER: P744648

CATALOG NUMBER: LD4D20D010-EU4DR6520359024-4LBS1LI

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	133.8	8.6
10°-20°	366.3	23.5
20°-30°	447.8	28.7
30°-40°	363.3	23.3
40°-50°	181.1	11.6
50°-60°	50.5	3.2
60°-70°	11.5	0.7
70°-80°	3.0	0.2
80°-90°	0.7	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°	947.9	60.8
0°-40°	1311.2	84.2
0°-60°	1542.8	99.0
0°-90°	1557.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1557.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1415	
5°	1406	134
15°	1320	366
25°	982	448
35°	585	363
45°	230	181
55°	52	50
65°	11	11
75°	3	3
85°	1	1
90°	0	



TEST NUMBER: P744648

CATALOG NUMBER: LD4D20D010-EU4DR6520359024-4LBS1LI

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1414.7
2.5°	1413.6
5°	1405.7
7.5°	1401.2
10°	1388.4
12.5°	1362.6
15°	1319.8
17.5°	1252.9
20°	1168.9
22.5°	1078.3
25°	982.4
27.5°	880.0
30°	780.8
32.5°	682.9
35°	585.2
37.5°	487.7
40°	395.0
42.5°	308.1
45°	230.3
47.5°	160.5
50°	109.1
52.5°	75.2
55°	51.7
57.5°	34.9
60°	23.7
62.5°	16.4
65°	11.0
67.5°	5.6
70°	3.7
72.5°	3.6
75°	3.1
77.5°	2.1
80°	1.4
82.5°	1.0
85°	0.6
87.5°	0.4
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)