

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: P744480

Luminaire Tested: LD4D20D010-EU4DR5020359050-4LBS1MW

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P744480  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-44)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/30/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD4D20D010-EU4DR5020359050-4LBS1MW  
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 50° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2050.6 lumens  
Efficiency: N/A  
Efficacy: 88.8 lumens/watt  
Spacing Criteria (0/90/45): 0.8 / 0.8 / 0.73  
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

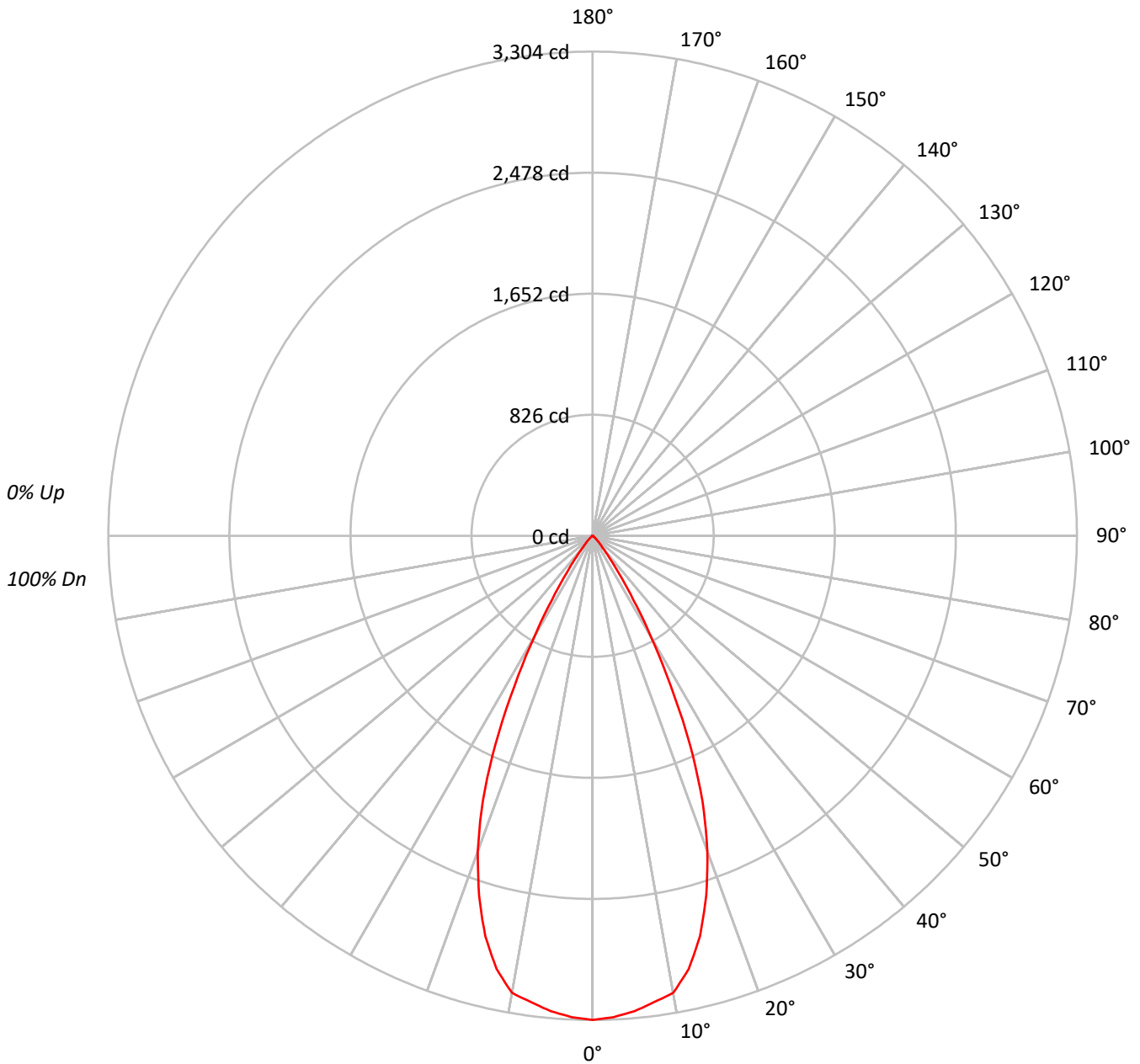


Downlight



TEST NUMBER: P744480  
CATALOG NUMBER: LD4D20D010-EU4DR5020359050-4LBS1MW

### Luminous Intensity Polar Plot





TEST NUMBER: P744480

CATALOG NUMBER: LD4D20D010-EU4DR5020359050-4LBS1MW

**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	0													
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100						100													
1	114	112	109	107	112	110	108	106	106	104	102	102	101	99	98	97	97	95						95													
2	109	105	101	98	107	103	100	97	100	98	95	97	95	93	95	93	91	90						90													
3	105	99	95	91	103	98	94	90	95	92	89	93	90	88	91	88	86	85						85													
4	100	94	89	85	99	93	88	85	90	87	84	89	85	83	87	84	82	80						80													
5	96	89	84	80	95	88	83	79	86	82	79	85	81	78	83	80	77	76						76													
6	92	84	79	75	91	83	79	75	82	78	74	81	77	74	79	76	74	72						72													
7	88	80	75	71	87	79	74	71	78	74	71	77	73	70	76	73	70	69						69													
8	85	76	71	67	84	76	71	67	75	70	67	74	70	67	73	69	66	65						65													
9	81	73	68	64	80	72	67	64	71	67	64	71	67	64	70	66	63	62						62													
10	78	70	64	61	77	69	64	61	68	64	61	68	64	61	67	63	60	59						59													

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

	0°
0°	361008
5°	357222
10°	351345
15°	319923
20°	266207
25°	188971
30°	100022
35°	40762
40°	15133
45°	6938
50°	2839
55°	1486
60°	721
65°	233
70°	0
75°	0
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 6938 cd/sqm



TEST NUMBER: P744480

CATALOG NUMBER: LD4D20D010-EU4DR5020359050-4LBS1MW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	307.9	15.0
10°-20°	778.0	37.9
20°-30°	698.9	34.1
30°-40°	218.8	10.7
40°-50°	38.3	1.9
50°-60°	7.6	0.4
60°-70°	1.2	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°	1784.7	87.0
0°-40°	2003.5	97.7
0°-60°	2049.5	99.9
0°-90°	2050.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2050.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3304	
5°	3257	308
15°	2828	778
25°	1568	699
35°	306	219
45°	45	38
55°	8	8
65°	1	1
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P744480  
CATALOG NUMBER: LD4D20D010-EU4DR5020359050-4LBS1MW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3304.1
2.5°	3287.6
5°	3257.0
7.5°	3210.2
10°	3166.8
12.5°	3027.5
15°	2828.3
17.5°	2575.4
20°	2289.5
22.5°	1958.9
25°	1567.5
27.5°	1152.4
30°	792.8
32.5°	516.2
35°	305.6
37.5°	175.5
40°	106.1
42.5°	69.1
45°	44.9
47.5°	27.3
50°	16.7
52.5°	11.4
55°	7.8
57.5°	5.3
60°	3.3
62.5°	1.9
65°	0.9
67.5°	0.3
70°	0.0
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)