

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



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: P754384

Luminaire Tested: LD4D80BD010-EU4DR6570959050-4LBS1H

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P754384  
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: LD4D80BD010-EU4DR6570959050-4LBS1H  
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 65° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7478.3 lumens  
Efficiency: N/A  
Efficacy: 94.8 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

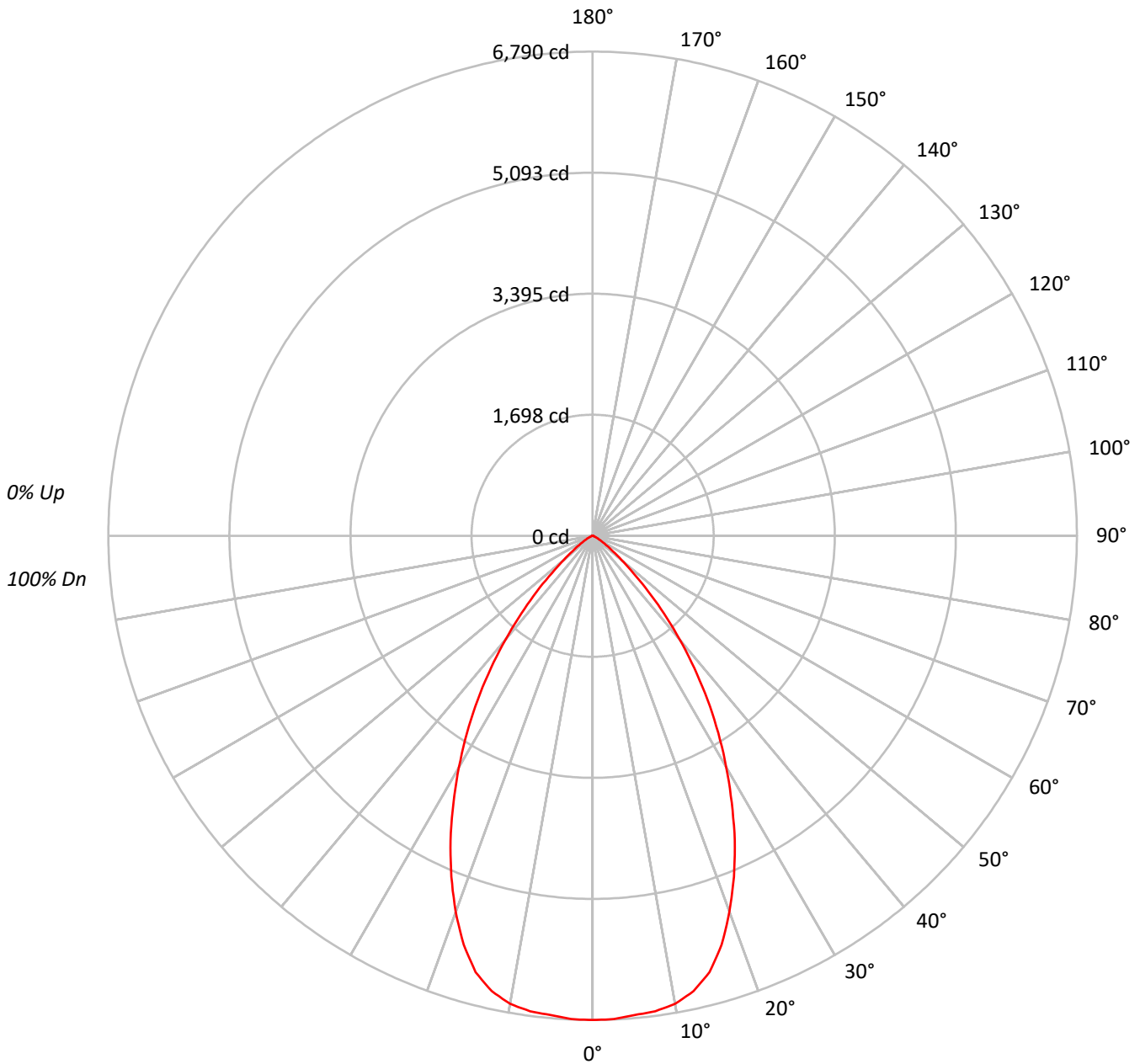
Input Watts (W): 78.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



Downlight

TEST NUMBER: P754384  
CATALOG NUMBER: LD4D80BD010-EU4DR6570959050-4LBS1H

### Luminous Intensity Polar Plot





TEST NUMBER: P754384

CATALOG NUMBER: LD4D80BD010-EU4DR6570959050-4LBS1H

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20			
RC	80				70				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
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°	396568
5°	395568
10°	395231
15°	383046
20°	348717
25°	303881
30°	252748
35°	200262
40°	144537
45°	91318
50°	47593
55°	25303
60°	13281
65°	7311
70°	3074
75°	3385
80°	2354
85°	2010

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 91318 cd/sqm



TEST NUMBER: P754384

CATALOG NUMBER: LD4D80BD010-EU4DR6570959050-4LBS1H

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	642.1	8.6
10°-20°	1758.4	23.5
20°-30°	2149.3	28.7
30°-40°	1743.9	23.3
40°-50°	869.0	11.6
50°-60°	242.4	3.2
60°-70°	55.1	0.7
70°-80°	14.4	0.2
80°-90°	3.7	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°	4549.9	60.8
0°-40°	6293.8	84.2
0°-60°	7405.2	99.0
0°-90°	7478.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7478.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	6790	
5°	6747	642
15°	6335	1758
25°	4716	2149
35°	2809	1744
45°	1106	869
55°	248	242
65°	53	55
75°	15	14
85°	3	4
90°	0	



TEST NUMBER: P754384

CATALOG NUMBER: LD4D80BD010-EU4DR6570959050-4LBS1H

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	6790.1
2.5°	6785.1
5°	6747.2
7.5°	6725.2
10°	6664.4
12.5°	6540.6
15°	6335.1
17.5°	6013.8
20°	5610.7
22.5°	5175.6
25°	4715.6
27.5°	4223.7
30°	3747.8
32.5°	3277.8
35°	2808.8
37.5°	2340.9
40°	1895.8
42.5°	1478.7
45°	1105.6
47.5°	770.3
50°	523.8
52.5°	361.2
55°	248.5
57.5°	167.6
60°	113.7
62.5°	78.8
65°	52.9
67.5°	26.9
70°	18.0
72.5°	17.0
75°	15.0
77.5°	10.0
80°	7.0
82.5°	5.0
85°	3.0
87.5°	2.0
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)