

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: P774017

Luminaire Tested: LD6D90BD010-EU6DR7070959024-6LBDP1H

Issue Date: 2/5/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P774017  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-73)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD6D90BD010-EU6DR7070959024-6LBDP1H  
Description: 6 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 70° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9441.6 lumens  
Efficiency: N/A  
Efficacy: 95.5 lumens/watt  
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.82  
Luminous Opening: Circular (Dia: 0.35' x H: 0')  
CIE Type: Direct

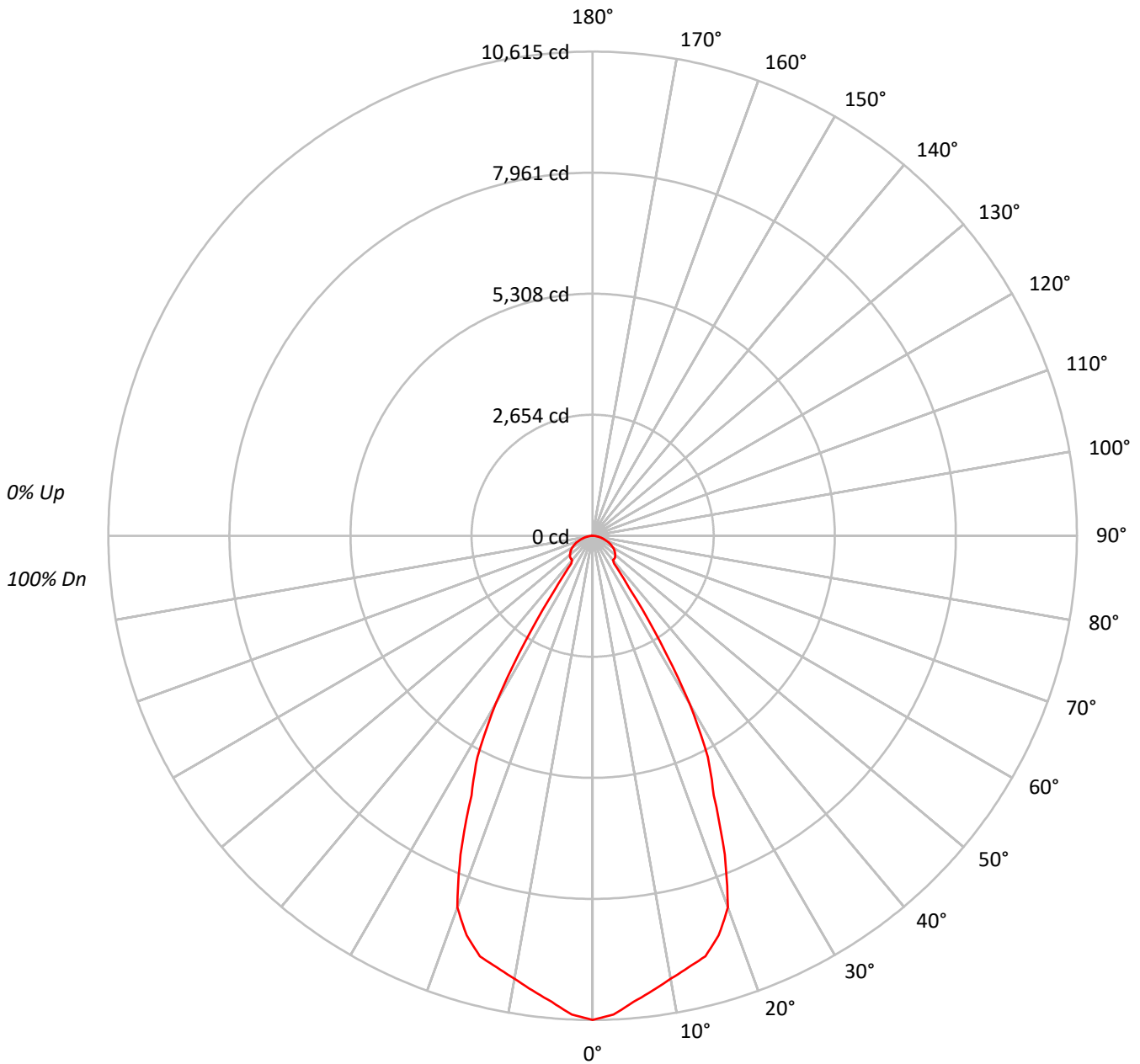
Input Watts (W): 98.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



Downlight

TEST NUMBER: P774017  
CATALOG NUMBER: LD6D90BD010-EU6DR7070959024-6LBDP1H

### Luminous Intensity Polar Plot





TEST NUMBER: P774017

CATALOG NUMBER: LD6D90BD010-EU6DR7070959024-6LBDP1H

**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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			
1	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83			
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76			
4	94	86	80	75	92	85	79	74	82	77	73	80	76	73	78	75	72	70			
5	89	80	74	69	87	79	73	69	77	72	68	75	71	67	74	70	67	65			
6	85	75	68	64	83	74	68	64	73	67	63	71	66	63	70	66	62	61			
7	80	70	64	59	79	70	64	59	68	63	59	67	62	59	66	62	58	57			
8	77	66	60	56	75	66	60	56	65	59	55	64	59	55	63	58	55	53			
9	73	63	57	52	72	62	56	52	61	56	52	60	55	52	60	55	52	50			
10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	48			

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

	0°
0°	1159803
5°	1125341
10°	1093975
15°	1079627
20°	1008144
25°	757368
30°	535400
35°	189644
40°	99727
45°	106216
50°	109994
55°	112046
60°	112757
65°	110368
70°	104143
75°	96504
80°	85635
85°	69576

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 57.5°  
 Luminance: 112779 cd/sqm



TEST NUMBER: P774017

CATALOG NUMBER: LD6D90BD010-EU6DR7070959024-6LBDP1H

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	967.8	10.3
10°-20°	2654.6	28.1
20°-30°	2923.7	31.0
30°-40°	1117.1	11.8
40°-50°	527.5	5.6
50°-60°	524.4	5.6
60°-70°	419.8	4.4
70°-80°	241.3	2.6
80°-90°	65.6	0.7
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°	6546.0	69.3
0°-40°	7663.1	81.2
0°-60°	8714.9	92.3
0°-90°	9441.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9441.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	10615	
5°	10260	968
15°	9544	2655
25°	6282	2924
35°	1422	1117
45°	687	527
55°	588	524
65°	427	420
75°	229	241
85°	56	66
90°	0	



TEST NUMBER: P774017

CATALOG NUMBER: LD6D90BD010-EU6DR7070959024-6LBDP1H

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	10615.0
2.5°	10504.1
5°	10260.4
7.5°	10057.1
10°	9860.4
12.5°	9694.0
15°	9544.5
17.5°	9183.1
20°	8670.5
22.5°	7564.6
25°	6282.3
27.5°	5468.9
30°	4243.7
32.5°	2741.2
35°	1421.8
37.5°	768.1
40°	699.2
42.5°	694.1
45°	687.4
47.5°	672.3
50°	647.1
52.5°	618.5
55°	588.2
57.5°	554.6
60°	516.0
62.5°	472.3
65°	426.9
67.5°	376.5
70°	326.0
72.5°	275.6
75°	228.6
77.5°	179.8
80°	136.1
82.5°	95.8
85°	55.5
87.5°	21.8
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)