

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: P774004

Luminaire Tested: LD6D90BD010-EU6DR6570959050-6LBDP1H

Issue Date: 2/5/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P774004  
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: LD6D90BD010-EU6DR6570959050-6LBDP1H  
Description: 6 INCH ROUND DEEP 45° CUTOFF 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: 10189.8 lumens  
Efficiency: N/A  
Efficacy: 103.0 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

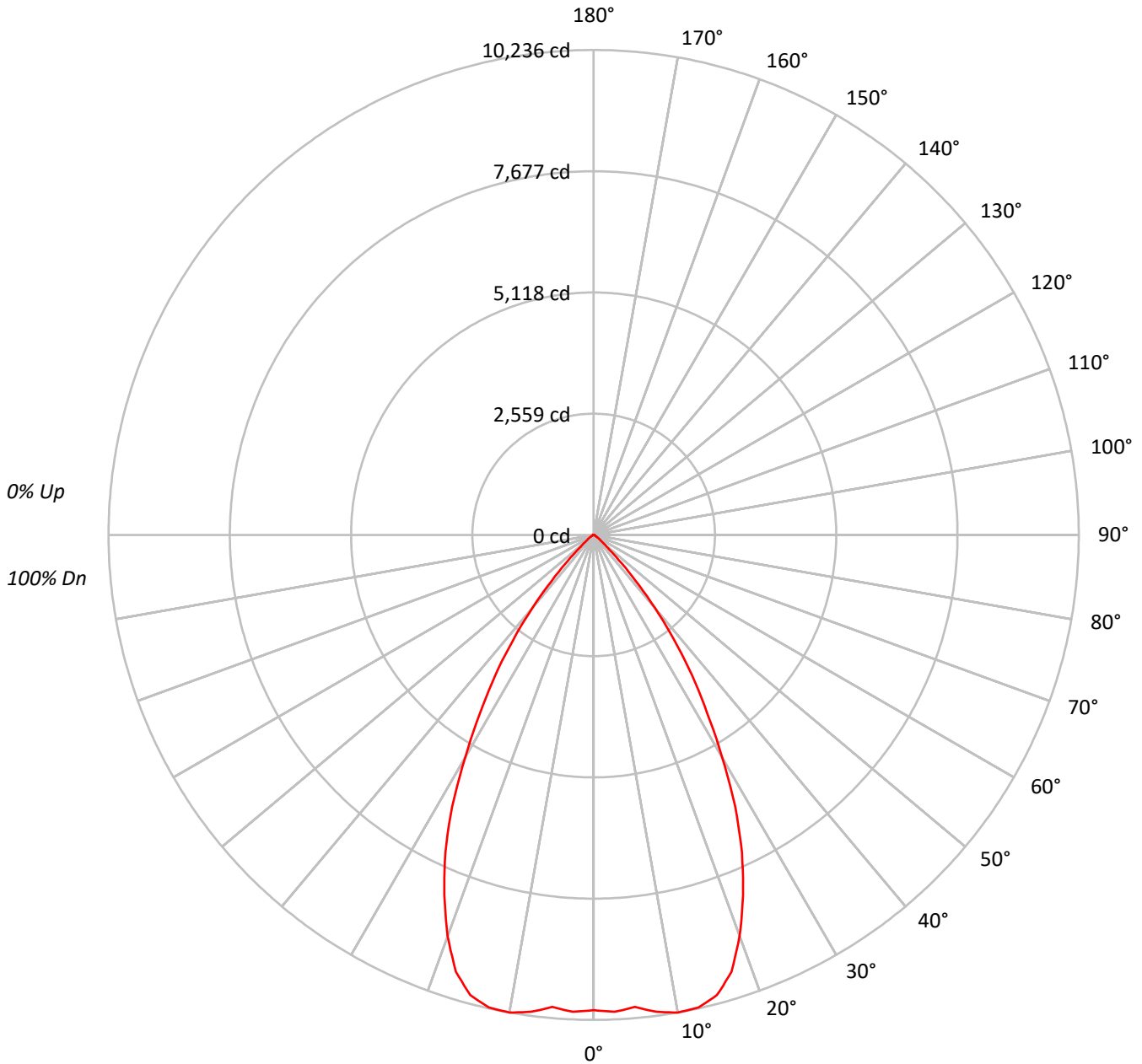
Input Watts (W): 98.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



Downlight

TEST NUMBER: P774004  
CATALOG NUMBER: LD6D90BD010-EU6DR6570959050-6LBDP1H

### Luminous Intensity Polar Plot





TEST NUMBER: P774004

CATALOG NUMBER: LD6D90BD010-EU6DR6570959050-6LBDP1H

**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°	1096159
5°	1097066
10°	1135690
15°	1137575
20°	1047328
25°	892367
30°	683137
35°	482632
40°	284889
45°	115657
50°	41917
55°	23354
60°	13395
65°	7368
70°	7731
75°	6037
80°	6292
85°	5391

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 115657 cd/sqm



TEST NUMBER: P774004

CATALOG NUMBER: LD6D90BD010-EU6DR6570959050-6LBDP1H

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	966.0	9.5
10°-20°	2786.6	27.3
20°-30°	3343.4	32.8
30°-40°	2246.9	22.1
40°-50°	672.6	6.6
50°-60°	118.7	1.2
60°-70°	33.7	0.3
70°-80°	16.5	0.2
80°-90°	5.3	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°	7096.1	69.6
0°-40°	9342.9	91.7
0°-60°	10134.2	99.5
0°-90°	10189.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10189.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	10032	
5°	10003	966
15°	10057	2787
25°	7402	3343
35°	3618	2247
45°	748	673
55°	123	119
65°	28	34
75°	14	17
85°	4	5
90°	0	



TEST NUMBER: P774004

CATALOG NUMBER: LD6D90BD010-EU6DR6570959050-6LBDP1H

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	10032.5
2.5°	10075.3
5°	10002.6
7.5°	10153.7
10°	10236.4
12.5°	10216.4
15°	10056.8
17.5°	9666.1
20°	9007.5
22.5°	8231.9
25°	7402.1
27.5°	6465.5
30°	5414.7
32.5°	4462.4
35°	3618.4
37.5°	2784.4
40°	1997.4
42.5°	1304.5
45°	748.5
47.5°	396.3
50°	246.6
52.5°	171.1
55°	122.6
57.5°	88.4
60°	61.3
62.5°	39.9
65°	28.5
67.5°	25.7
70°	24.2
72.5°	18.5
75°	14.3
77.5°	12.8
80°	10.0
82.5°	7.1
85°	4.3
87.5°	2.9
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)