

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: P773968

Luminaire Tested: LD6D90BD010-EU6DR6570959030-6LBS1B

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P773968  
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: LD6D90BD010-EU6DR6570959030-6LBS1B  
Description: 6 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 65° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9348.0 lumens  
Efficiency: N/A  
Efficacy: 94.5 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

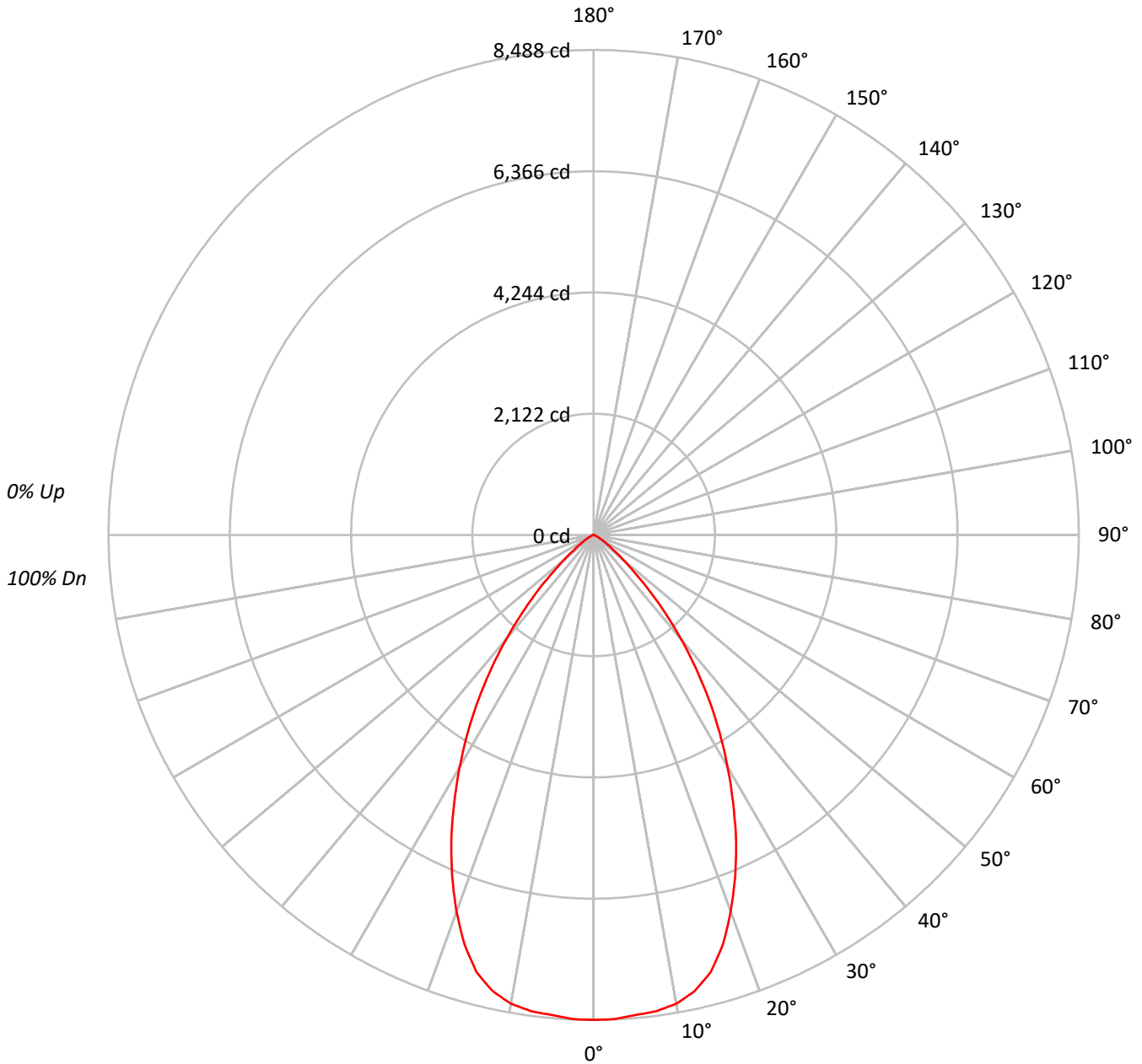
Input Watts (W): 98.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



Downlight

TEST NUMBER: P773968  
CATALOG NUMBER: LD6D90BD010-EU6DR6570959030-6LBS1B

### Luminous Intensity Polar Plot





TEST NUMBER: P773968

CATALOG NUMBER: LD6D90BD010-EU6DR6570959030-6LBS1B

**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°	495715
5°	494466
10°	494045
15°	478815
20°	435898
25°	379857
30°	315938
35°	250334
40°	180676
45°	114147
50°	59495
55°	31627
60°	16610
65°	9135
70°	3842
75°	4220
80°	2926
85°	2479

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 114147 cd/sqm



TEST NUMBER: P773968

CATALOG NUMBER: LD6D90BD010-EU6DR6570959030-6LBS1B

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	802.7	8.6
10°-20°	2198.0	23.5
20°-30°	2686.7	28.7
30°-40°	2179.9	23.3
40°-50°	1086.3	11.6
50°-60°	303.0	3.2
60°-70°	68.9	0.7
70°-80°	17.9	0.2
80°-90°	4.6	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°	5687.4	60.8
0°-40°	7867.3	84.2
0°-60°	9256.6	99.0
0°-90°	9348.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9348.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	8488	
5°	8434	803
15°	7919	2198
25°	5895	2687
35°	3511	2180
45°	1382	1086
55°	311	303
65°	66	69
75°	19	18
85°	4	5
90°	0	



TEST NUMBER: P773968

CATALOG NUMBER: LD6D90BD010-EU6DR6570959030-6LBS1B

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	8487.7
2.5°	8481.5
5°	8434.1
7.5°	8406.7
10°	8330.6
12.5°	8175.9
15°	7919.0
17.5°	7517.3
20°	7013.4
22.5°	6469.6
25°	5894.6
27.5°	5279.7
30°	4684.8
32.5°	4097.3
35°	3511.1
37.5°	2926.1
40°	2369.8
42.5°	1848.5
45°	1382.0
47.5°	962.9
50°	654.8
52.5°	451.5
55°	310.6
57.5°	209.5
60°	142.2
62.5°	98.5
65°	66.1
67.5°	33.7
70°	22.5
72.5°	21.2
75°	18.7
77.5°	12.5
80°	8.7
82.5°	6.2
85°	3.7
87.5°	2.5
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)