

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: P755904

Luminaire Tested: LD4D90BD010-EU4DR6570959030-4LBS1B

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P755904  
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: LD4D90BD010-EU4DR6570959030-4LBS1B  
Description: 4 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: 7360.6 lumens  
Efficiency: N/A  
Efficacy: 74.4 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

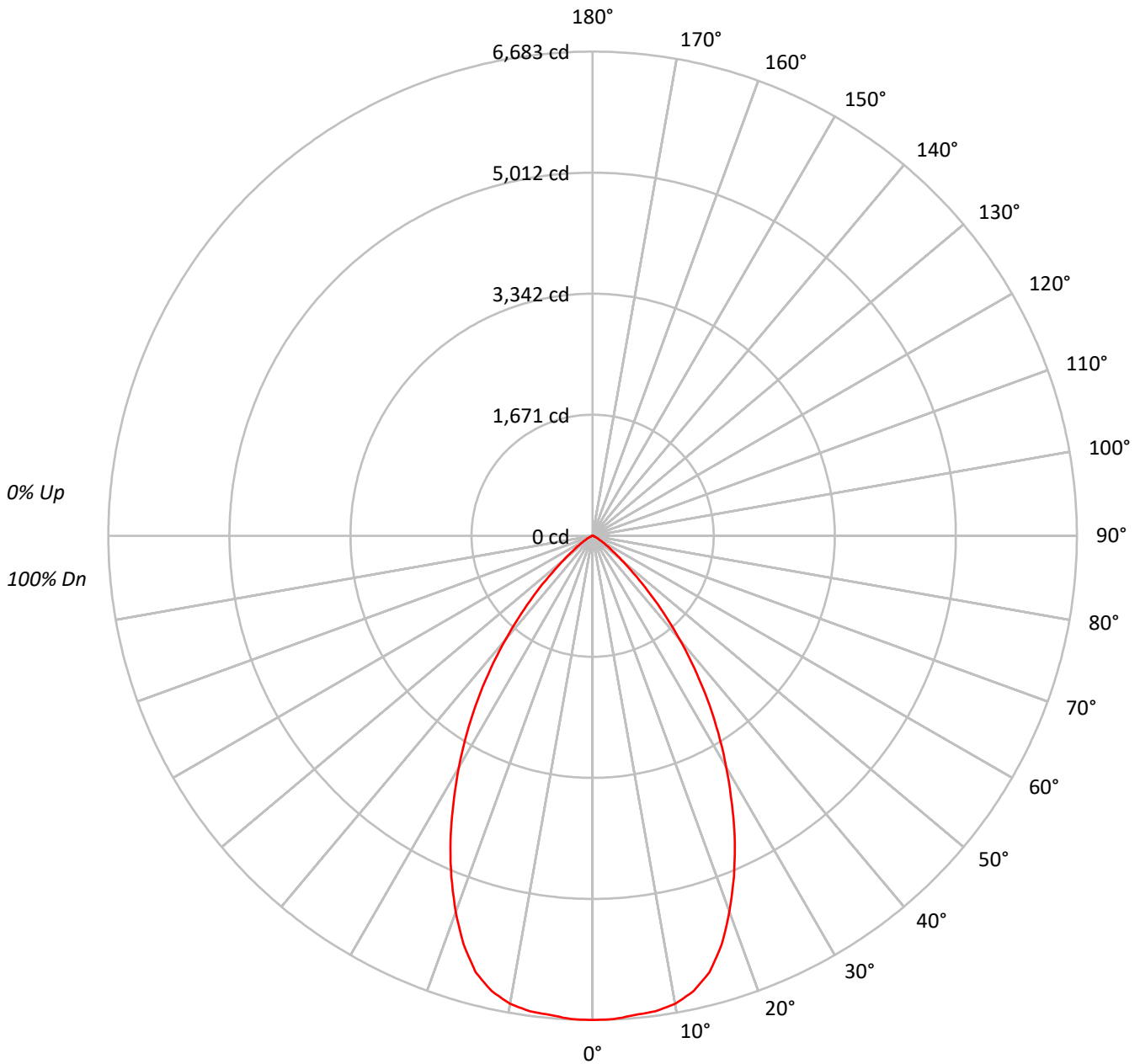


Downlight

TEST NUMBER: P755904

CATALOG NUMBER: LD4D90BD010-EU4DR6570959030-4LBS1B

### Luminous Intensity Polar Plot





TEST NUMBER: P755904

CATALOG NUMBER: LD4D90BD010-EU4DR6570959030-4LBS1B

**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				100															
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	93				93															
2	107	102	97	94	105	100	96	92	97	93	90	94	91	88	91	89	87	85				85															
3	101	94	88	84	99	92	87	83	90	86	82	87	84	81	85	82	80	78				78															
4	95	87	81	76	93	86	80	76	84	79	75	82	77	74	80	76	73	72				72															
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	75	71	68	66				66															
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62	61				61															
7	80	70	64	59	79	69	63	59	68	63	59	67	62	58	66	61	58	56				56															
8	76	66	59	55	75	65	59	55	64	58	54	63	58	54	62	57	54	52				52															
9	72	61	55	51	71	61	55	51	60	54	51	59	54	50	58	54	50	49				49															
10	68	58	52	47	67	57	51	47	57	51	47	56	51	47	55	50	47	46				46															

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

	0°
0°	390325
5°	389342
10°	389010
15°	377018
20°	343229
25°	299099
30°	248769
35°	197110
40°	142265
45°	89880
50°	46848
55°	24896
60°	13082
65°	7200
70°	3022
75°	3317
80°	2321
85°	1943

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 89880 cd/sqm



TEST NUMBER: P755904

CATALOG NUMBER: LD4D90BD010-EU4DR6570959030-4LBS1B

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	632.0	8.6
10°-20°	1730.7	23.5
20°-30°	2115.5	28.7
30°-40°	1716.5	23.3
40°-50°	855.4	11.6
50°-60°	238.6	3.2
60°-70°	54.2	0.7
70°-80°	14.1	0.2
80°-90°	3.6	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°	4478.3	60.8
0°-40°	6194.7	84.2
0°-60°	7288.7	99.0
0°-90°	7360.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7360.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	6683	
5°	6641	632
15°	6235	1731
25°	4641	2116
35°	2765	1716
45°	1088	855
55°	244	239
65°	52	54
75°	15	14
85°	3	4
90°	0	



TEST NUMBER: P755904

CATALOG NUMBER: LD4D90BD010-EU4DR6570959030-4LBS1B

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	6683.2
2.5°	6678.3
5°	6641.0
7.5°	6619.4
10°	6559.5
12.5°	6437.7
15°	6235.4
17.5°	5919.2
20°	5522.4
22.5°	5094.2
25°	4641.4
27.5°	4157.3
30°	3688.8
32.5°	3226.2
35°	2764.6
37.5°	2304.0
40°	1866.0
42.5°	1455.5
45°	1088.2
47.5°	758.2
50°	515.6
52.5°	355.5
55°	244.5
57.5°	165.0
60°	112.0
62.5°	77.6
65°	52.1
67.5°	26.5
70°	17.7
72.5°	16.7
75°	14.7
77.5°	9.8
80°	6.9
82.5°	4.9
85°	2.9
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)