

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: P749794

Luminaire Tested: LD4D55D010-EU4DR2555659024-4LBS1B

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P749794  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-4)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/30/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD4D55D010-EU4DR2555659024-4LBS1B  
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 25° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4128.3 lumens  
Efficiency: N/A  
Efficacy: 70.9 lumens/watt  
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.45  
Luminous Opening: Circular (Dia: 0.35' x H: 0')  
CIE Type: Direct

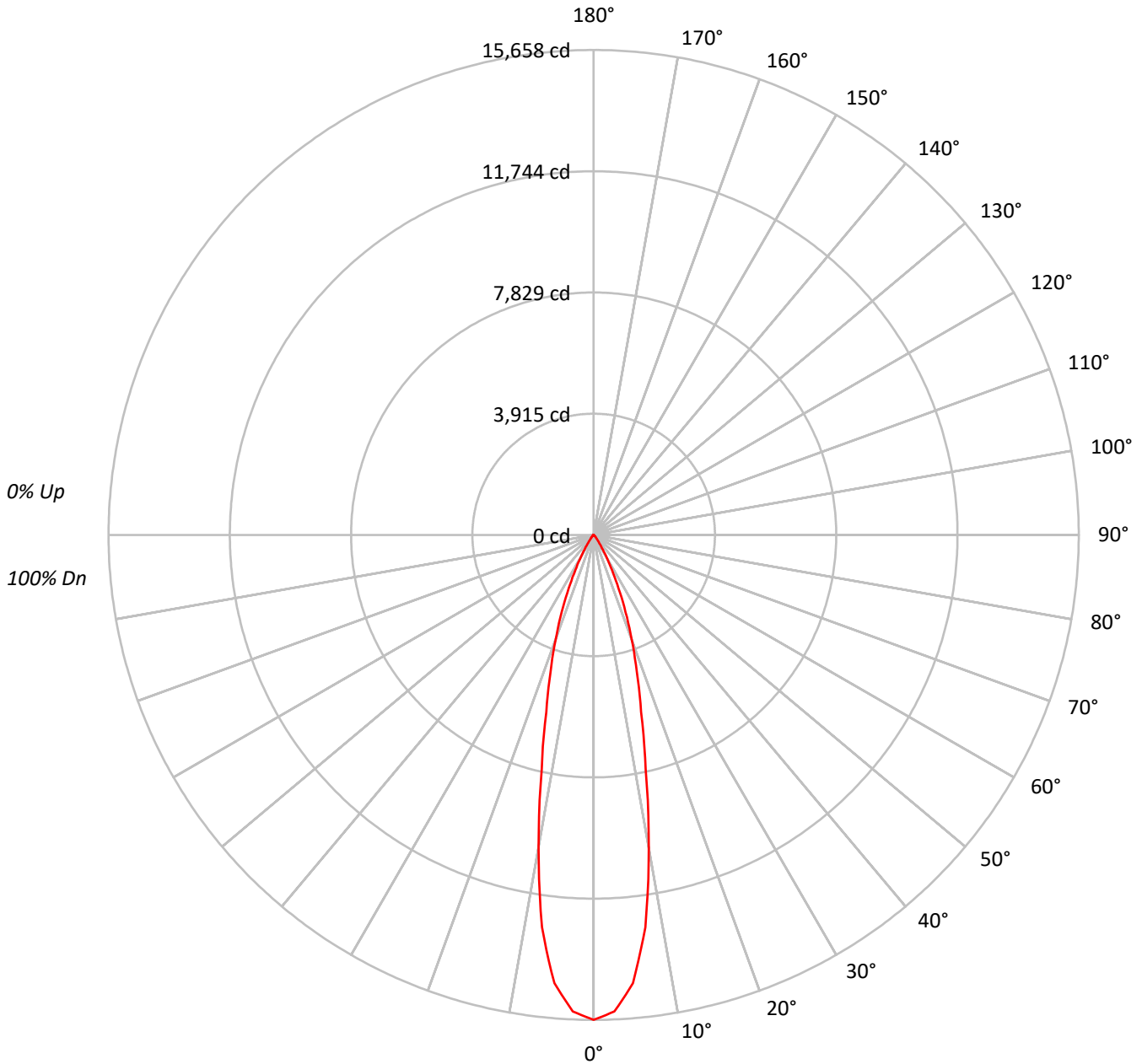
Input Watts (W): 58.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



Downlight

TEST NUMBER: P749794  
CATALOG NUMBER: LD4D55D010-EU4DR2555659024-4LBS1B

### Luminous Intensity Polar Plot





TEST NUMBER: P749794

CATALOG NUMBER: LD4D55D010-EU4DR2555659024-4LBS1B

**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	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96			
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92			
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89			
4	103	97	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85			
5	100	93	89	86	98	93	89	86	91	87	85	89	86	84	88	85	83	82			
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79			
7	93	87	82	79	92	86	82	79	85	81	78	84	80	78	83	80	78	77			
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74			
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72			
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69			

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

	0°
0°	1710783
5°	1593382
10°	1136600
15°	669415
20°	416524
25°	228586
30°	104539
35°	39588
40°	17929
45°	10785
50°	4470
55°	2876
60°	2010
65°	1370
70°	224
75°	0
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 10785 cd/sqm



TEST NUMBER: P749794

CATALOG NUMBER: LD4D55D010-EU4DR2555659024-4LBS1B

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1248.5	30.2
10°-20°	1691.1	41.0
20°-30°	894.9	21.7
30°-40°	220.9	5.4
40°-50°	53.9	1.3
50°-60°	14.2	0.3
60°-70°	4.8	0.1
70°-80°	0.1	0.0
80°-90°	0.0	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°	3834.5	92.9
0°-40°	4055.4	98.2
0°-60°	4123.4	99.9
0°-90°	4128.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4128.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	15658	
5°	14528	###
15°	5918	1691
25°	1896	895
35°	297	221
45°	70	54
55°	15	14
65°	5	5
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P749794

CATALOG NUMBER: LD4D55D010-EU4DR2555659024-4LBS1B

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	15657.8
2.5°	15400.5
5°	14527.8
7.5°	12774.5
10°	10244.6
12.5°	7744.3
15°	5918.0
17.5°	4612.3
20°	3582.3
22.5°	2686.5
25°	1896.1
27.5°	1271.5
30°	828.6
32.5°	504.1
35°	296.8
37.5°	181.6
40°	125.7
42.5°	96.1
45°	69.8
47.5°	42.1
50°	26.3
52.5°	19.1
55°	15.1
57.5°	11.8
60°	9.2
62.5°	7.2
65°	5.3
67.5°	2.0
70°	0.7
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
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)