

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: P748191

Luminaire Tested: LD4D40BD010-EU4DR7040509035-4LBDP1B

Issue Date: 2/5/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P748191  
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: LD4D40BD010-EU4DR7040509035-4LBDP1B  
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 70° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2232.6 lumens  
Efficiency: N/A  
Efficacy: 63.4 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

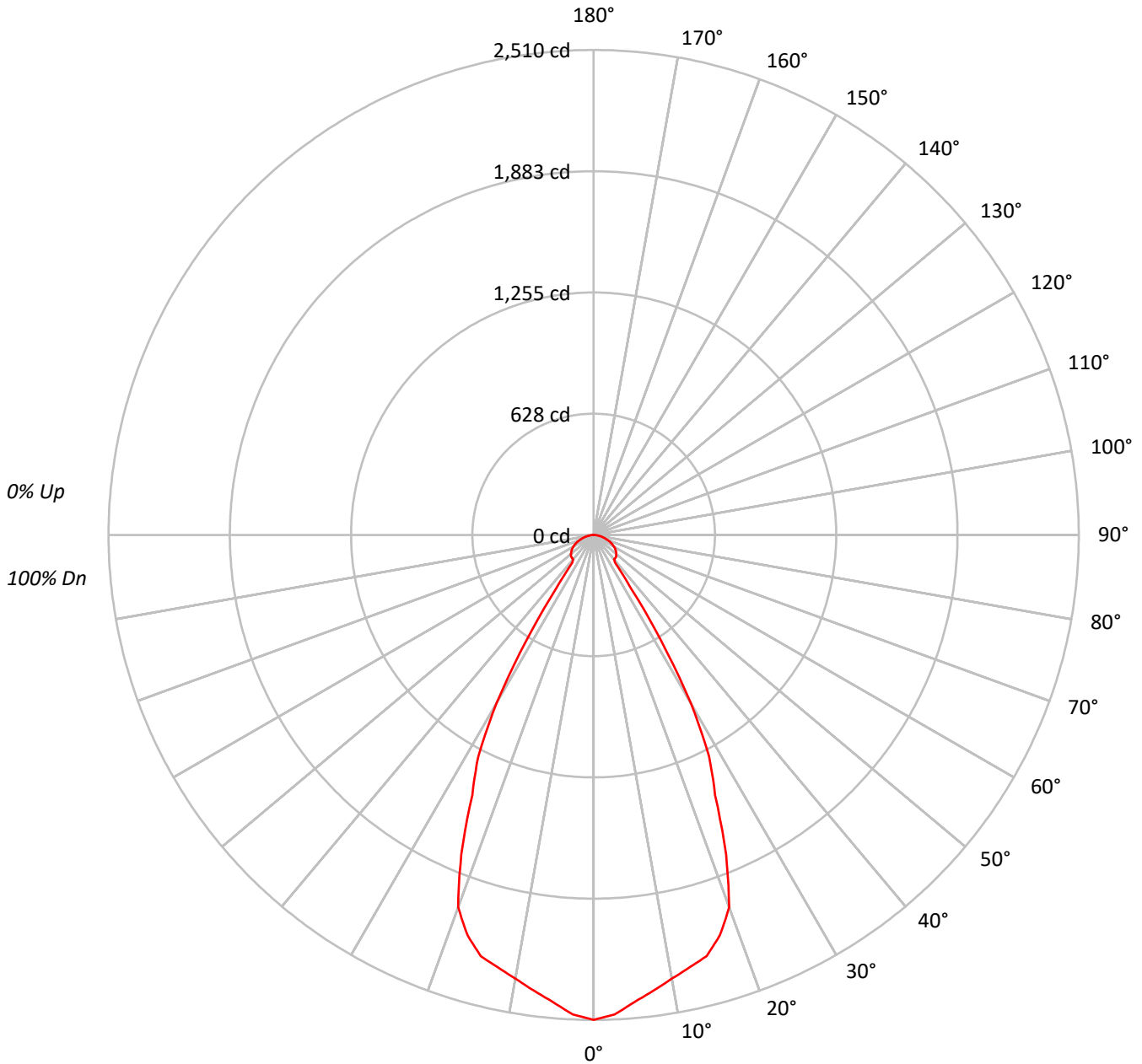
Input Watts (W): 35.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



Downlight

TEST NUMBER: P748191  
CATALOG NUMBER: LD4D40BD010-EU4DR7040509035-4LBDP1B

### Luminous Intensity Polar Plot





TEST NUMBER: P748191  
 CATALOG NUMBER: LD4D40BD010-EU4DR7040509035-4LBDP1B

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20		
RC	80				70				50				30				10		
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30
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°	274255
5°	266112
10°	258693
15°	255301
20°	238394
25°	179098
30°	126605
35°	44843
40°	23577
45°	25109
50°	26007
55°	26497
60°	26660
65°	26086
70°	24630
75°	22796
80°	20260
85°	16423

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 57.5°  
 Luminance: 26680 cd/sqm



TEST NUMBER: P748191

CATALOG NUMBER: LD4D40BD010-EU4DR7040509035-4LBDP1B

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	228.9	10.3
10°-20°	627.7	28.1
20°-30°	691.4	31.0
30°-40°	264.1	11.8
40°-50°	124.7	5.6
50°-60°	124.0	5.6
60°-70°	99.3	4.4
70°-80°	57.0	2.6
80°-90°	15.5	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°	1547.9	69.3
0°-40°	1812.1	81.2
0°-60°	2060.8	92.3
0°-90°	2232.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2232.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2510	
5°	2426	229
15°	2257	628
25°	1486	691
35°	336	264
45°	162	125
55°	139	124
65°	101	99
75°	54	57
85°	13	16
90°	0	



TEST NUMBER: P748191  
CATALOG NUMBER: LD4D40BD010-EU4DR7040509035-4LBDP1B

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2510.1
2.5°	2483.9
5°	2426.3
7.5°	2378.2
10°	2331.7
12.5°	2292.4
15°	2257.0
17.5°	2171.5
20°	2050.3
22.5°	1788.8
25°	1485.6
27.5°	1293.2
30°	1003.5
32.5°	648.2
35°	336.2
37.5°	181.6
40°	165.3
42.5°	164.1
45°	162.5
47.5°	159.0
50°	153.0
52.5°	146.3
55°	139.1
57.5°	131.2
60°	122.0
62.5°	111.7
65°	100.9
67.5°	89.0
70°	77.1
72.5°	65.2
75°	54.0
77.5°	42.5
80°	32.2
82.5°	22.7
85°	13.1
87.5°	5.2
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)