

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: P748117

Luminaire Tested: LD4D40BD010-EU4DR6540509035-4LBS1B

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P748117  
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: LD4D40BD010-EU4DR6540509035-4LBS1B  
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 65° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3255.6 lumens  
Efficiency: N/A  
Efficacy: 92.5 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): 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

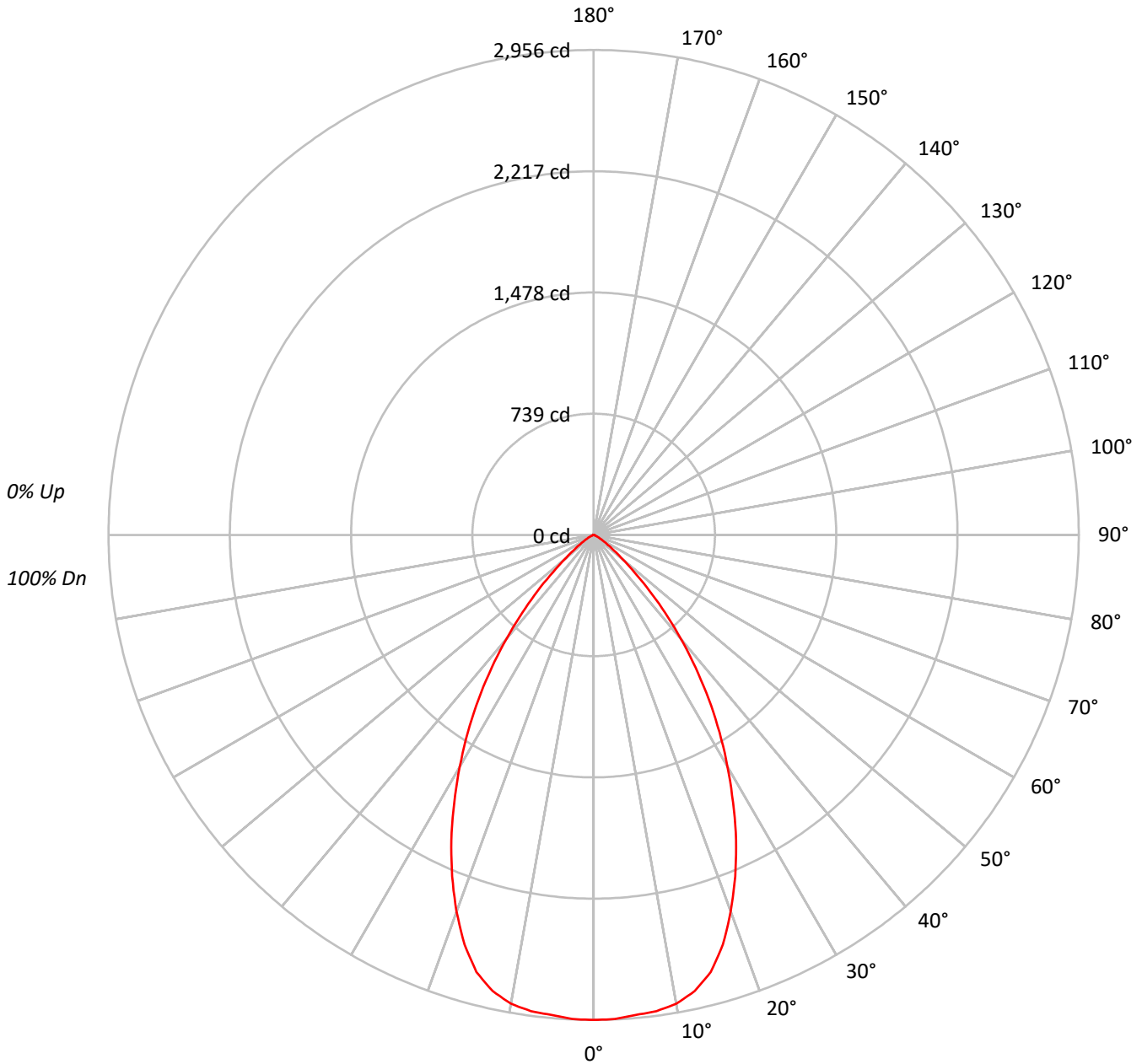


Downlight

TEST NUMBER: P748117

CATALOG NUMBER: LD4D40BD010-EU4DR6540509035-4LBS1B

### Luminous Intensity Polar Plot





TEST NUMBER: P748117

CATALOG NUMBER: LD4D40BD010-EU4DR6540509035-4LBS1B

**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°	172642
5°	172205
10°	172061
15°	166754
20°	151807
25°	132292
30°	110027
35°	87183
40°	62922
45°	39753
50°	20725
55°	11017
60°	5782
65°	3178
70°	1332
75°	1467
80°	1009
85°	871

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 39753 cd/sqm



TEST NUMBER: P748117

CATALOG NUMBER: LD4D40BD010-EU4DR6540509035-4LBS1B

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	279.5	8.6
10°-20°	765.5	23.5
20°-30°	935.7	28.7
30°-40°	759.2	23.3
40°-50°	378.3	11.6
50°-60°	105.5	3.2
60°-70°	24.0	0.7
70°-80°	6.2	0.2
80°-90°	1.6	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°	1980.7	60.8
0°-40°	2739.9	84.2
0°-60°	3223.8	99.0
0°-90°	3255.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3255.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2956	
5°	2937	280
15°	2758	765
25°	2053	936
35°	1223	759
45°	481	378
55°	108	106
65°	23	24
75°	6	6
85°	1	2
90°	0	



TEST NUMBER: P748117

CATALOG NUMBER: LD4D40BD010-EU4DR6540509035-4LBS1B

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2956.0
2.5°	2953.8
5°	2937.3
7.5°	2927.8
10°	2901.3
12.5°	2847.4
15°	2757.9
17.5°	2618.0
20°	2442.5
22.5°	2253.2
25°	2052.9
27.5°	1838.8
30°	1631.5
32.5°	1427.0
35°	1222.8
37.5°	1019.1
40°	825.3
42.5°	643.8
45°	481.3
47.5°	335.3
50°	228.1
52.5°	157.2
55°	108.2
57.5°	73.0
60°	49.5
62.5°	34.3
65°	23.0
67.5°	11.7
70°	7.8
72.5°	7.4
75°	6.5
77.5°	4.3
80°	3.0
82.5°	2.2
85°	1.3
87.5°	0.9
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)