

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: P747948

Luminaire Tested: LD4D40BD010-EU4DR5540509030-4LBS1B

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P747948  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-52)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/30/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD4D40BD010-EU4DR5540509030-4LBS1B  
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 55° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3800.4 lumens  
Efficiency: N/A  
Efficacy: 108.0 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.87  
Luminous Opening: Circular (Dia: 0.35' x H: 0')  
CIE Type: Direct

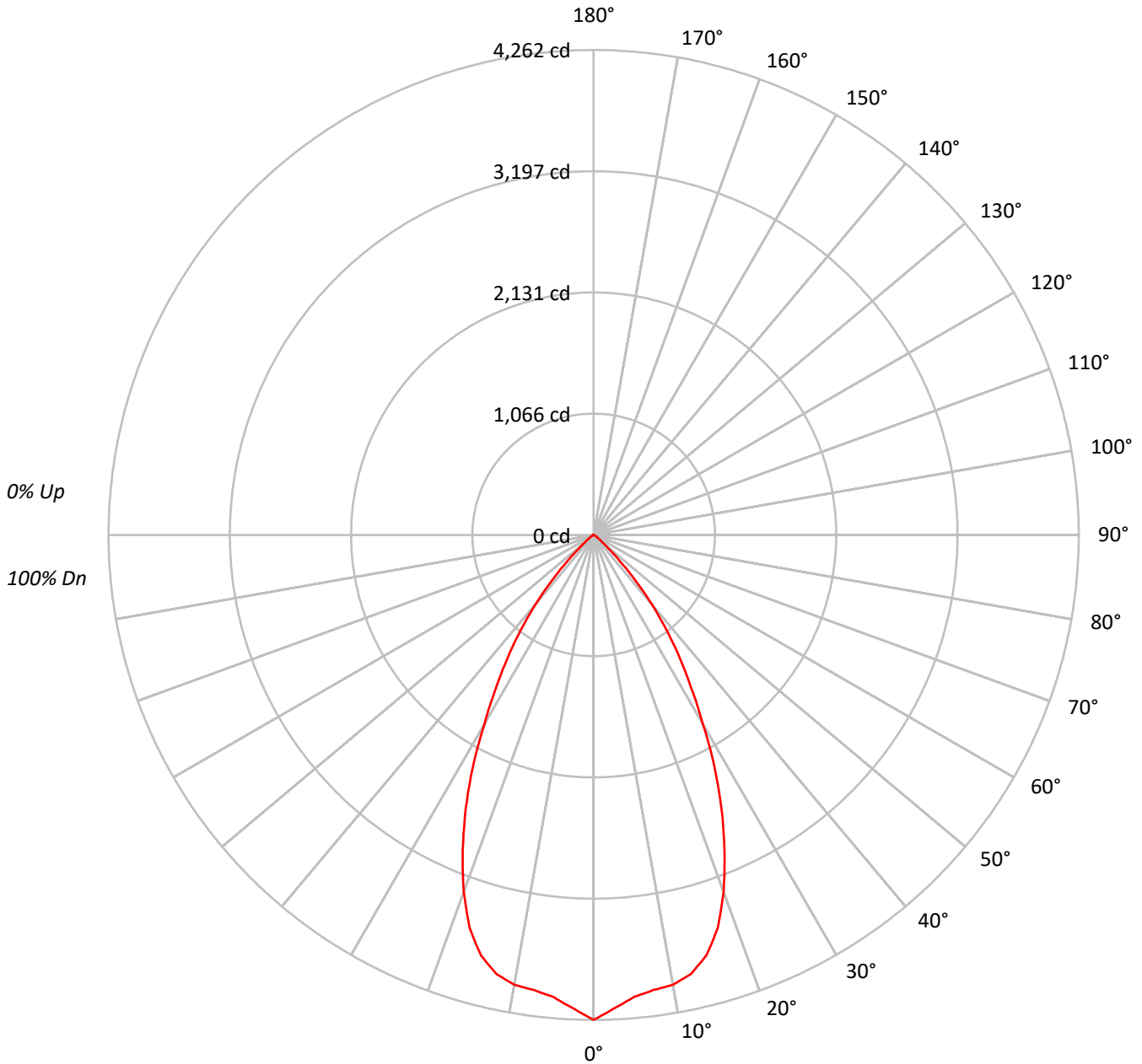
Input Watts (W): 35.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



Downlight

TEST NUMBER: P747948  
CATALOG NUMBER: LD4D40BD010-EU4DR5540509030-4LBS1B

### Luminous Intensity Polar Plot





TEST NUMBER: P747948

CATALOG NUMBER: LD4D40BD010-EU4DR5540509030-4LBS1B

**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																			
1	114	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94																			
2	108	103	99	96	106	101	98	95	98	95	92	95	93	90	92	90	89	87																			
3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82	81																			
4	97	90	84	80	95	88	83	79	86	82	78	84	81	78	82	79	77	75																			
5	92	84	78	74	91	83	77	73	81	76	73	79	75	72	78	74	71	70																			
6	88	79	73	68	86	78	72	68	76	71	68	75	70	67	74	70	67	65																			
7	83	74	68	64	82	73	67	63	72	67	63	71	66	63	70	65	62	61																			
8	79	69	63	59	78	69	63	59	68	63	59	67	62	59	66	62	58	57																			
9	75	66	60	56	74	65	59	55	64	59	55	63	58	55	62	58	55	54																			
10	72	62	56	52	71	61	56	52	61	56	52	60	55	52	59	55	52	50																			

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

	0°
0°	465626
5°	447125
10°	445438
15°	432642
20°	387933
25°	320606
30°	242171
35°	175598
40°	112378
45°	51331
50°	16777
55°	7239
60°	3125
65°	414
70°	0
75°	0
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 51331 cd/sqm



TEST NUMBER: P747948

CATALOG NUMBER: LD4D40BD010-EU4DR5540509030-4LBS1B

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	387.9	10.2
10°-20°	1058.7	27.9
20°-30°	1206.5	31.7
30°-40°	821.3	21.6
40°-50°	283.0	7.4
50°-60°	39.1	1.0
60°-70°	3.8	0.1
70°-80°	0.0	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°	2653.1	69.8
0°-40°	3474.5	91.4
0°-60°	3796.6	99.9
0°-90°	3800.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3800.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4262	
5°	4077	388
15°	3825	1059
25°	2659	1207
35°	1316	821
45°	332	283
55°	38	39
65°	2	4
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P747948

CATALOG NUMBER: LD4D40BD010-EU4DR5540509030-4LBS1B

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4261.6
2.5°	4163.9
5°	4076.7
7.5°	4034.0
10°	4014.9
12.5°	3951.6
15°	3824.8
17.5°	3623.6
20°	3336.4
22.5°	3004.7
25°	2659.4
27.5°	2299.8
30°	1919.5
32.5°	1597.4
35°	1316.5
37.5°	1049.3
40°	787.9
42.5°	546.0
45°	332.2
47.5°	179.0
50°	98.7
52.5°	58.6
55°	38.0
57.5°	24.3
60°	14.3
62.5°	6.3
65°	1.6
67.5°	0.5
70°	0.0
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)