

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: P747600

Luminaire Tested: LD4D40BD010-EU4DR3040509050-4LBS1MW

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P747600  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/30/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD4D40BD010-EU4DR3040509050-4LBS1MW  
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3915.9 lumens  
Efficiency: N/A  
Efficacy: 111.2 lumens/watt  
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49  
Luminous Opening: Rectangular (W 0.38' x L: 0.38' 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

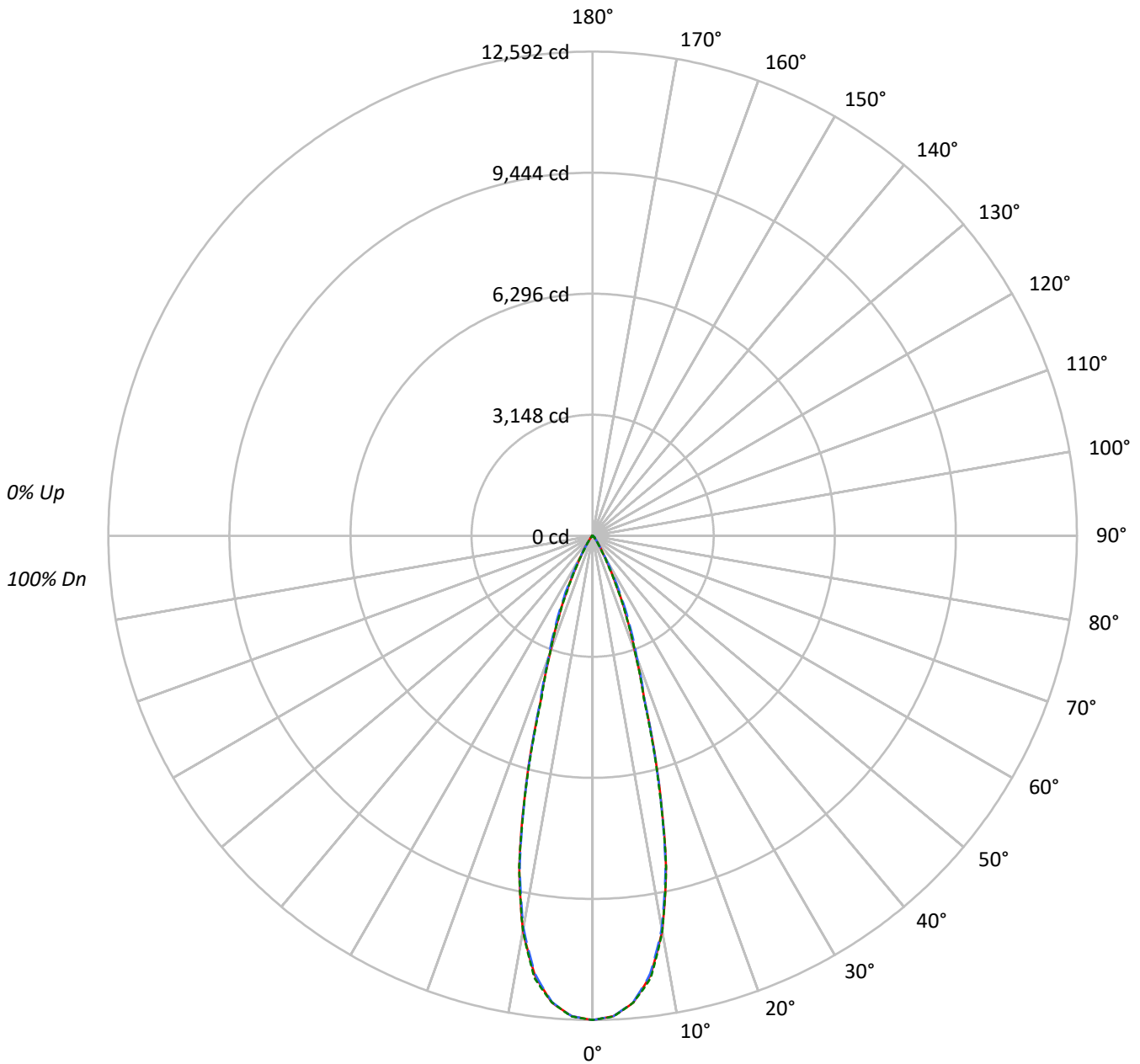


Downlight

TEST NUMBER: P747600

CATALOG NUMBER: LD4D40BD010-EU4DR3040509050-4LBS1MW

### Luminous Intensity Polar Plot





TEST NUMBER: P747600

CATALOG NUMBER: LD4D40BD010-EU4DR3040509050-4LBS1MW

**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	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	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85																			
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82																			
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79																			
7	94	87	82	79	92	86	82	79	85	81	78	84	81	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°	45°	90°
0°	963804	963804	963804
5°	936136	935045	936183
10°	810834	805122	810648
15°	529030	526193	523546
20°	263061	272934	262711
25°	132512	149429	129801
30°	53057	57812	46225
35°	24613	23566	19754
40°	10622	11801	10002
45°	7491	9299	7567
50°	2572	6776	2727
55°	1481	2802	1561
60°	1041	1225	1041
65°	670	670	670
70°	425	269	425
75°	0	177	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 9299 cd/sqm



TEST NUMBER: P747600

CATALOG NUMBER: LD4D40BD010-EU4DR3040509050-4LBS1MW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1107.2	28.3
10°-20°	1783.2	45.5
20°-30°	770.6	19.7
30°-40°	175.6	4.5
40°-50°	60.3	1.5
50°-60°	14.7	0.4
60°-70°	3.8	0.1
70°-80°	0.4	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°	3661.0	93.5
0°-40°	3836.7	98.0
0°-60°	3911.7	99.9
0°-90°	3915.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3915.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	12592	12592	12592	12592	12592	
5°	12184	12172	12169	12195	12184	1108
15°	6676	6596	6640	6618	6607	1788
25°	1569	1628	1769	1587	1537	751
35°	263	269	252	250	211	179
45°	69	86	86	86	70	49
55°	11	12	21	12	12	11
65°	4	4	4	4	4	4
75°	0	0	1	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



TEST NUMBER: P747600

CATALOG NUMBER: LD4D40BD010-EU4DR3040509050-4LBS1MW

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	12591.6	12591.6	12591.6	12591.6	12591.6
2.5°	12508.2	12499.5	12504.5	12510.6	12513.1
5°	12183.6	12171.9	12169.4	12194.7	12184.2
7.5°	11528.9	11512.2	11486.9	11544.4	11598.2
10°	10432.2	10413.7	10358.7	10385.9	10429.8
12.5°	8813.1	8753.2	8751.9	8838.5	8826.7
15°	6676.0	6595.6	6640.2	6618.5	6606.8
17.5°	4489.4	4458.5	4517.9	4499.9	4422.6
20°	3229.5	3237.5	3350.7	3293.8	3225.2
22.5°	2356.6	2385.7	2519.8	2373.3	2319.5
25°	1569.0	1628.4	1769.3	1586.9	1536.9
27.5°	965.0	992.2	1135.0	952.7	925.5
30°	600.3	586.7	654.1	561.3	523.0
32.5°	393.8	376.5	398.1	357.3	326.4
35°	263.4	268.9	252.2	250.4	211.4
37.5°	164.4	189.2	166.9	178.0	136.0
40°	106.3	137.2	118.1	130.4	100.1
42.5°	87.2	105.7	97.1	103.2	89.0
45°	69.2	85.9	85.9	85.9	69.9
47.5°	38.3	57.5	73.6	58.7	40.8
50°	21.6	29.1	56.9	30.3	22.9
52.5°	14.8	16.7	38.9	17.3	15.5
55°	11.1	11.7	21.0	12.4	11.7
57.5°	8.7	9.3	11.1	9.3	8.7
60°	6.8	6.8	8.0	7.4	6.8
62.5°	4.9	4.9	5.6	4.9	4.9
65°	3.7	3.7	3.7	3.7	3.7
67.5°	1.9	2.5	2.5	2.5	2.5
70°	1.9	1.2	1.2	1.2	1.9
72.5°	1.2	0.6	0.6	0.6	0.6
75°	0.0	0.0	0.6	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	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







— 0°-180°    - - 45°-225°    - - - - 90°-270°

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)