

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: P746025

Luminaire Tested: LD4D30D010-EU4DR3020359040-4LBS1H

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P746025  
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: LD4D30D010-EU4DR3020359040-4LBS1H  
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2986.6 lumens  
Efficiency: N/A  
Efficacy: 103.0 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): 29  
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

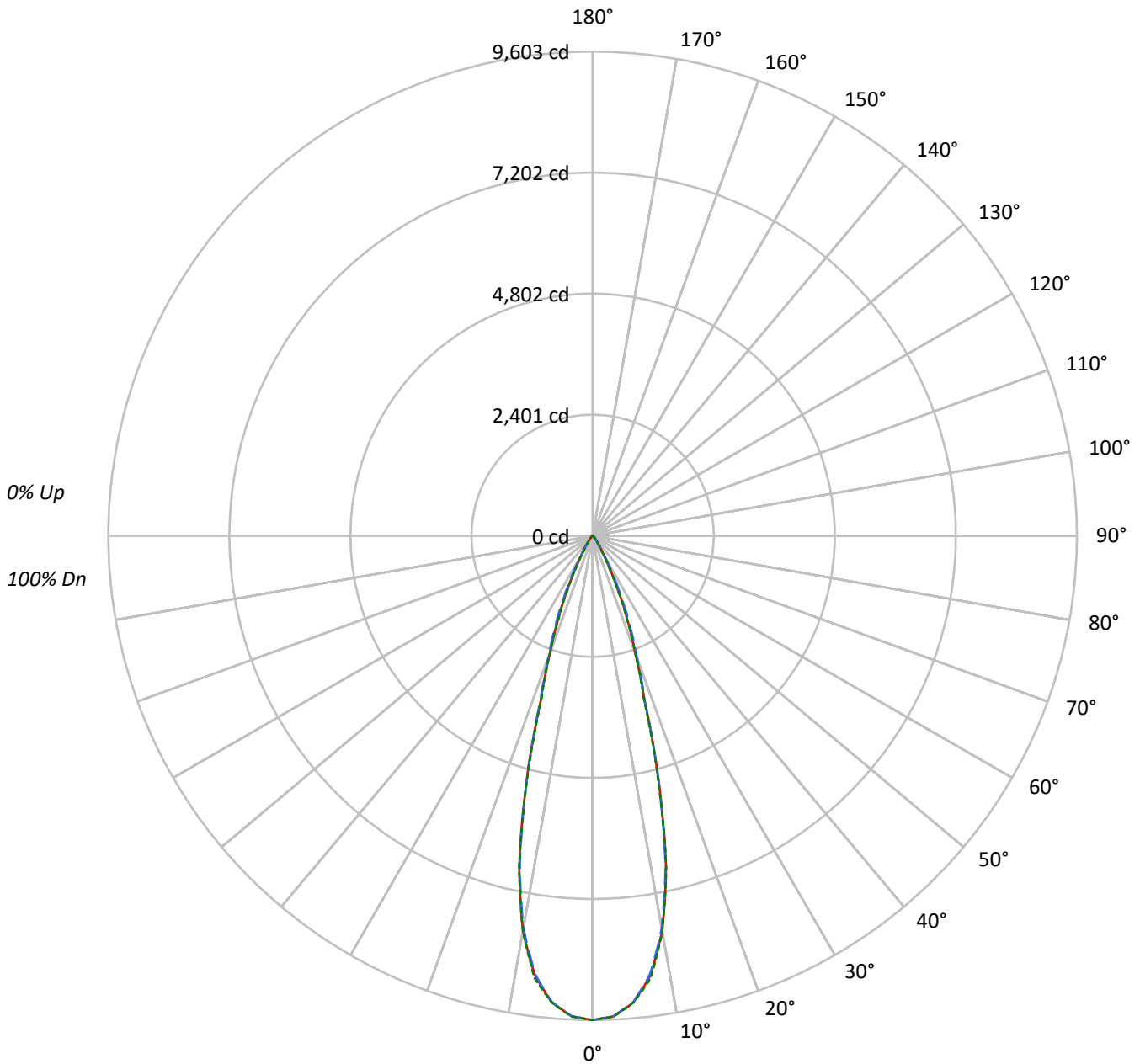


Downlight



TEST NUMBER: P746025  
CATALOG NUMBER: LD4D30D010-EU4DR3020359040-4LBS1H

### Luminous Intensity Polar Plot





TEST NUMBER: P746025

CATALOG NUMBER: LD4D30D010-EU4DR3020359040-4LBS1H

**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°	735069	735069	735069
5°	713973	713136	714004
10°	618413	614052	618265
15°	403476	401313	399300
20°	200634	208160	200365
25°	101069	113965	98991
30°	40463	44095	35257
35°	18773	17978	15063
40°	8104	9003	7634
45°	5716	7090	5770
50°	1965	5168	2072
55°	1134	2135	1188
60°	796	934	796
65°	507	507	507
70°	313	201	313
75°	0	148	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 7090 cd/sqm



TEST NUMBER: P746025

CATALOG NUMBER: LD4D30D010-EU4DR3020359040-4LBS1H

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	844.5	28.3
10°-20°	1360.0	45.5
20°-30°	587.7	19.7
30°-40°	134.0	4.5
40°-50°	46.0	1.5
50°-60°	11.2	0.4
60°-70°	2.9	0.1
70°-80°	0.3	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°	2792.2	93.5
0°-40°	2926.2	98.0
0°-60°	2983.4	99.9
0°-90°	2986.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2986.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	9603	9603	9603	9603	9603	
5°	9292	9283	9281	9301	9293	845
15°	5092	5030	5064	5048	5039	1363
25°	1197	1242	1349	1210	1172	573
35°	201	205	192	191	161	136
45°	53	66	66	66	53	37
55°	8	9	16	10	9	8
65°	3	3	3	3	3	3
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



TEST NUMBER: P746025

CATALOG NUMBER: LD4D30D010-EU4DR3020359040-4LBS1H

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	9603.3	9603.3	9603.3	9603.3	9603.3
2.5°	9539.7	9533.1	9536.9	9541.6	9543.5
5°	9292.2	9283.2	9281.3	9300.7	9292.6
7.5°	8792.8	8780.1	8760.8	8804.6	8845.7
10°	7956.5	7942.3	7900.4	7921.1	7954.6
12.5°	6721.6	6675.9	6674.9	6740.9	6732.0
15°	5091.6	5030.3	5064.3	5047.8	5038.9
17.5°	3424.0	3400.4	3445.7	3432.0	3373.1
20°	2463.1	2469.2	2555.5	2512.1	2459.8
22.5°	1797.3	1819.5	1921.8	1810.1	1769.0
25°	1196.7	1241.9	1349.4	1210.3	1172.1
27.5°	736.0	756.8	865.7	726.6	705.8
30°	457.8	447.5	498.9	428.1	398.9
32.5°	300.3	287.2	303.7	272.5	248.9
35°	200.9	205.1	192.4	191.0	161.2
37.5°	125.4	144.3	127.3	135.8	103.7
40°	81.1	104.7	90.1	99.5	76.4
42.5°	66.5	80.6	74.0	78.7	67.9
45°	52.8	65.5	65.5	65.5	53.3
47.5°	29.2	43.8	56.1	44.8	31.1
50°	16.5	22.2	43.4	23.1	17.4
52.5°	11.3	12.7	29.7	13.2	11.8
55°	8.5	8.9	16.0	9.5	8.9
57.5°	6.6	7.0	8.5	7.0	6.6
60°	5.2	5.2	6.1	5.7	5.2
62.5°	3.8	3.8	4.2	3.8	3.8
65°	2.8	2.8	2.8	2.8	2.8
67.5°	1.4	1.9	1.9	1.9	1.9
70°	1.4	0.9	0.9	0.9	1.4
72.5°	0.9	0.5	0.5	0.5	0.5
75°	0.0	0.0	0.5	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)