

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: P755361

Luminaire Tested: LD4D90BD010-EU4DR3070959030-4LBS1MW

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P755361  
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: LD4D90BD010-EU4DR3070959030-4LBS1MW  
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8398.2 lumens  
Efficiency: N/A  
Efficacy: 84.9 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): 98.9  
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

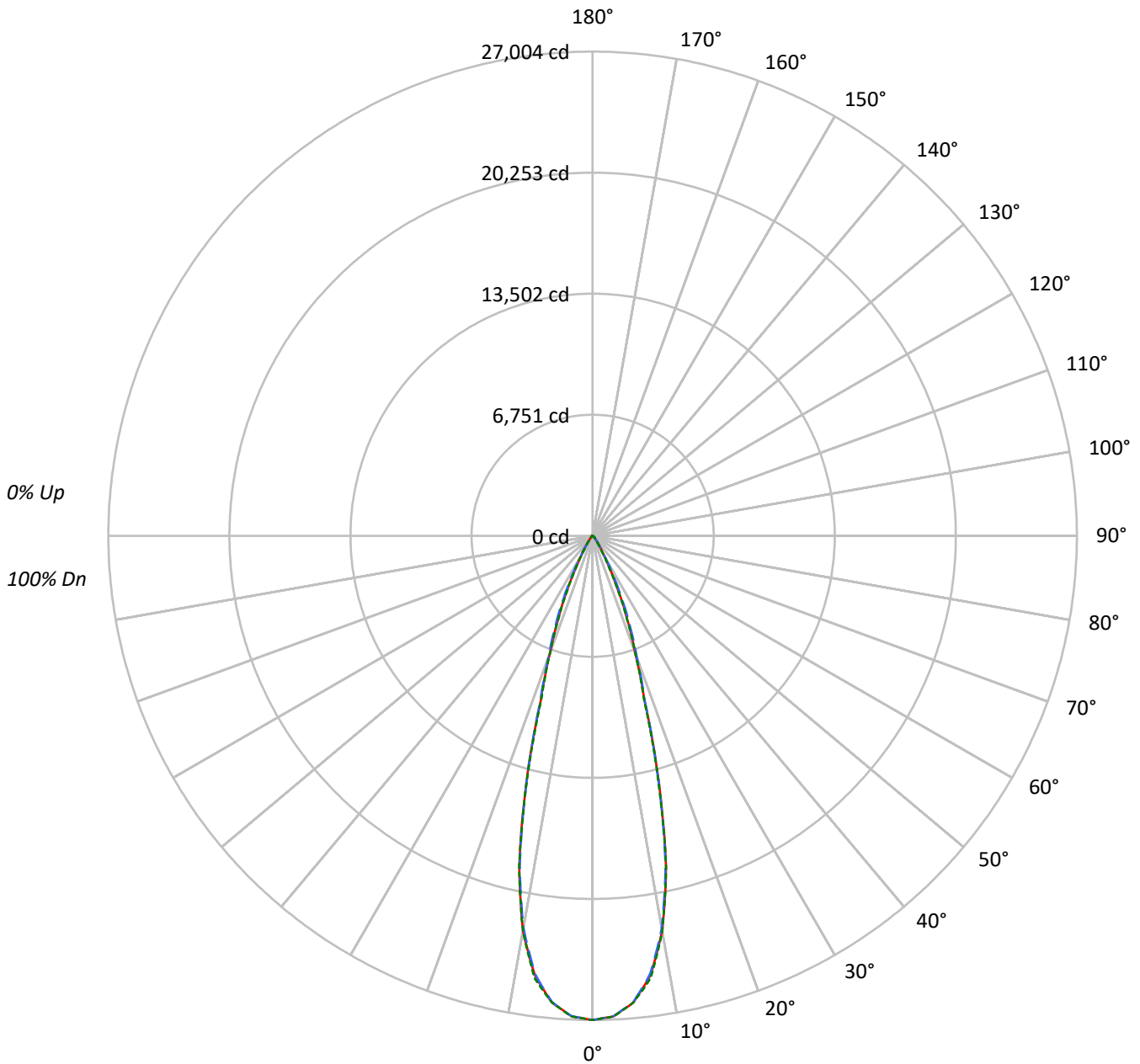


Downlight

TEST NUMBER: P755361

CATALOG NUMBER: LD4D90BD010-EU4DR3070959030-4LBS1MW

### Luminous Intensity Polar Plot





TEST NUMBER: P755361

CATALOG NUMBER: LD4D90BD010-EU4DR3070959030-4LBS1MW

**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	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°	2066993	2066993	2066993
5°	2007657	2005314	2007757
10°	1738939	1726674	1738527
15°	1134570	1128476	1122802
20°	564171	585333	563413
25°	284187	320469	278368
30°	113786	123977	99132
35°	52776	50543	42367
40°	22782	25300	21463
45°	16075	19950	16216
50°	5525	14528	5847
55°	3189	6019	3363
60°	2235	2633	2235
65°	1449	1449	1449
70°	895	604	895
75°	0	384	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 19950 cd/sqm



TEST NUMBER: P755361

CATALOG NUMBER: LD4D90BD010-EU4DR3070959030-4LBS1MW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2374.6	28.3
10°-20°	3824.3	45.5
20°-30°	1652.6	19.7
30°-40°	376.7	4.5
40°-50°	129.3	1.5
50°-60°	31.6	0.4
60°-70°	8.2	0.1
70°-80°	0.9	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°	7851.5	93.5
0°-40°	8228.2	98.0
0°-60°	8389.1	99.9
0°-90°	8398.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8398.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	27004	27004	27004	27004	27004	
5°	26129	26104	26099	26153	26130	2377
15°	14318	14145	14241	14194	14169	3834
25°	3365	3492	3794	3403	3296	1611
35°	565	577	541	537	453	383
45°	148	184	184	184	150	105
55°	24	25	45	26	25	23
65°	8	8	8	8	8	8
75°	0	0	1	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



TEST NUMBER: P755361

CATALOG NUMBER: LD4D90BD010-EU4DR3070959030-4LBS1MW

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	27004.2	27004.2	27004.2	27004.2	27004.2
2.5°	26825.2	26806.7	26817.3	26830.6	26835.9
5°	26129.2	26104.0	26098.7	26153.1	26130.5
7.5°	24725.2	24689.4	24635.0	24758.3	24873.6
10°	22373.2	22333.4	22215.4	22273.7	22367.9
12.5°	18900.8	18772.2	18769.6	18955.2	18930.0
15°	14317.5	14145.1	14240.6	14194.2	14169.0
17.5°	9628.1	9561.8	9689.1	9650.6	9484.9
20°	6926.1	6943.3	7185.9	7064.0	6916.8
22.5°	5054.0	5116.3	5404.0	5089.8	4974.5
25°	3364.9	3492.2	3794.5	3403.4	3296.0
27.5°	2069.6	2127.9	2434.2	2043.1	1984.7
30°	1287.4	1258.2	1402.7	1203.8	1121.6
32.5°	844.5	807.4	853.8	766.3	700.0
35°	564.8	576.7	540.9	537.0	453.4
37.5°	352.7	405.7	358.0	381.8	291.7
40°	228.0	294.3	253.2	279.7	214.8
42.5°	186.9	226.7	208.2	221.4	190.9
45°	148.5	184.3	184.3	184.3	149.8
47.5°	82.2	123.3	157.8	126.0	87.5
50°	46.4	62.3	122.0	65.0	49.1
52.5°	31.8	35.8	83.5	37.1	33.1
55°	23.9	25.2	45.1	26.5	25.2
57.5°	18.6	19.9	23.9	19.9	18.6
60°	14.6	14.6	17.2	15.9	14.6
62.5°	10.6	10.6	11.9	10.6	10.6
65°	8.0	8.0	8.0	8.0	8.0
67.5°	4.0	5.3	5.3	5.3	5.3
70°	4.0	2.7	2.7	2.7	4.0
72.5°	2.7	1.3	1.3	1.3	1.3
75°	0.0	0.0	1.3	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)