

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: P744820

Luminaire Tested: LD4D25D010-EU4DR1515309027-4LBSQW1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P744820
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2310-195-21)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D25D010-EU4DR1515309027-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2117.0 lumens
Efficiency: N/A
Efficacy: 84.3 lumens/watt
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.23
Luminous Opening: Vertical Cylinder (Dia: 0.35' x H: 0.35')
CIE Type: Direct

Input Watts (W): 25.1
Input Voltage (V): NR
Input Current (Ain): 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



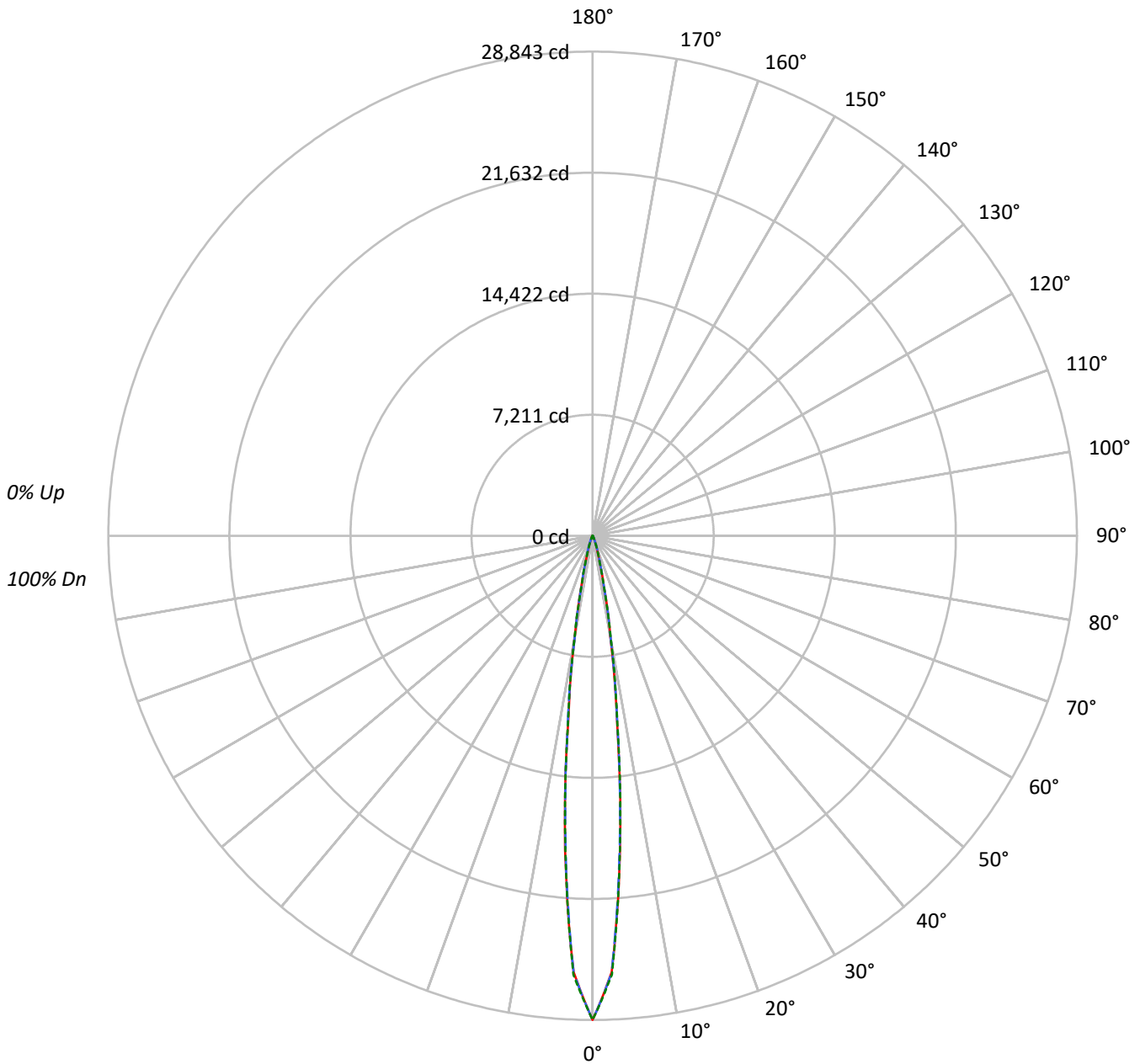
Downlight



TEST NUMBER: P744820

CATALOG NUMBER: LD4D25D010-EU4DR1515309027-4LBSQW1MW

Luminous Intensity Polar Plot





TEST NUMBER: P744820

CATALOG NUMBER: LD4D25D010-EU4DR1515309027-4LBSQW1MW

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						100													
1	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98						98													
2	113	110	107	105	111	108	106	104	105	103	102	102	101	100	100	98	98	96						96													
3	110	106	103	101	108	105	102	100	103	100	99	100	99	97	98	97	96	94						94													
4	108	103	100	98	106	102	99	97	100	98	96	99	97	95	97	95	94	93						93													
5	106	101	98	95	104	100	97	95	98	96	94	97	95	93	96	94	92	92						92													
6	104	99	95	93	102	98	95	93	97	94	92	96	93	92	95	93	91	90						90													
7	102	97	94	91	101	96	93	91	95	93	91	94	92	90	93	91	90	89						89													
8	100	95	92	90	99	95	92	90	94	91	89	93	91	89	92	90	89	88						88													
9	99	93	90	88	98	93	90	88	92	90	88	92	89	88	91	89	88	87						87													
10	97	92	89	87	96	92	89	87	91	89	87	91	88	87	90	88	86	86						86													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3245447	3245447	3245447
5°	1907178	1882482	1897371
10°	569204	573189	581959
15°	141585	144339	139883
20°	42360	49053	43260
25°	14934	19023	15121
30°	5489	7226	5579
35°	2752	3101	2658
40°	1733	1910	1733
45°	1281	1365	1281
50°	1022	1022	1022
55°	849	849	849
60°	688	688	688
65°	521	521	521
70°	446	446	446
75°	280	280	370
80°	189	189	189
85°	100	100	100

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1365 cd/sqm



TEST NUMBER: P744820

CATALOG NUMBER: LD4D25D010-EU4DR1515309027-4LBSQW1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1373.0	64.9
10°-20°	564.8	26.7
20°-30°	112.2	5.3
30°-40°	28.0	1.3
40°-50°	14.7	0.7
50°-60°	10.9	0.5
60°-70°	7.7	0.4
70°-80°	4.4	0.2
80°-90°	1.3	0.1
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°	2049.9	96.8
0°-40°	2077.9	98.2
0°-60°	2103.6	99.4
0°-90°	2117.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2117.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	28843	28843	28843	28843	28843	
5°	18766	18573	18523	18651	18670	1370
15°	1630	1661	1662	1632	1610	559
25°	192	217	244	216	194	101
35°	38	40	43	40	37	26
45°	18	18	20	18	18	14
55°	12	12	12	12	12	11
65°	7	7	7	7	7	8
75°	4	4	4	4	5	4
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



TEST NUMBER: P744820

CATALOG NUMBER: LD4D25D010-EU4DR1515309027-4LBSQW1MW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	28843.3	28843.3	28843.3	28843.3	28843.3
2.5°	26017.8	26039.8	26048.3	26074.0	26169.2
5°	18766.1	18573.2	18523.1	18651.3	18669.6
7.5°	11116.3	11155.4	11298.2	11330.0	11215.2
10°	6100.3	6150.4	6143.0	6187.0	6237.0
12.5°	3119.7	3080.7	3068.5	3118.5	3048.9
15°	1630.1	1660.6	1661.8	1632.5	1610.5
17.5°	876.7	912.1	970.7	923.1	849.8
20°	517.7	549.5	599.5	560.5	528.7
22.5°	319.9	345.6	381.0	350.4	324.8
25°	191.7	217.3	244.2	216.1	194.1
27.5°	113.6	135.5	152.6	134.3	112.3
30°	73.3	85.5	96.5	84.3	74.5
32.5°	51.3	56.2	61.1	56.2	51.3
35°	37.9	40.3	42.7	40.3	36.6
37.5°	29.3	31.7	33.0	30.5	28.1
40°	24.4	25.6	26.9	25.6	24.4
42.5°	20.8	22.0	22.0	22.0	20.8
45°	18.3	18.3	19.5	18.3	18.3
47.5°	15.9	15.9	17.1	15.9	15.9
50°	14.7	14.7	14.7	14.7	14.7
52.5°	13.4	13.4	13.4	13.4	13.4
55°	12.2	12.2	12.2	12.2	12.2
57.5°	11.0	11.0	11.0	11.0	11.0
60°	9.8	9.8	9.8	9.8	9.8
62.5°	8.5	8.5	8.5	8.5	8.5
65°	7.3	7.3	7.3	7.3	7.3
67.5°	7.3	7.3	7.3	7.3	7.3
70°	6.1	6.1	6.1	6.1	6.1
72.5°	4.9	4.9	4.9	4.9	4.9
75°	3.7	3.7	3.7	3.7	4.9
77.5°	3.7	3.7	3.7	3.7	3.7
80°	2.4	2.4	2.4	2.4	2.4
82.5°	2.4	2.4	2.4	2.4	2.4
85°	1.2	1.2	1.2	1.2	1.2
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)