

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: P742116

Luminaire Tested: LD4D10D010-EU4DR300210IC9027-4LBDP1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P742116
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: LD4D10D010-EU4DR300210IC9027-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 843.1 lumens
Efficiency: N/A
Efficacy: 72.1 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): 11.7
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



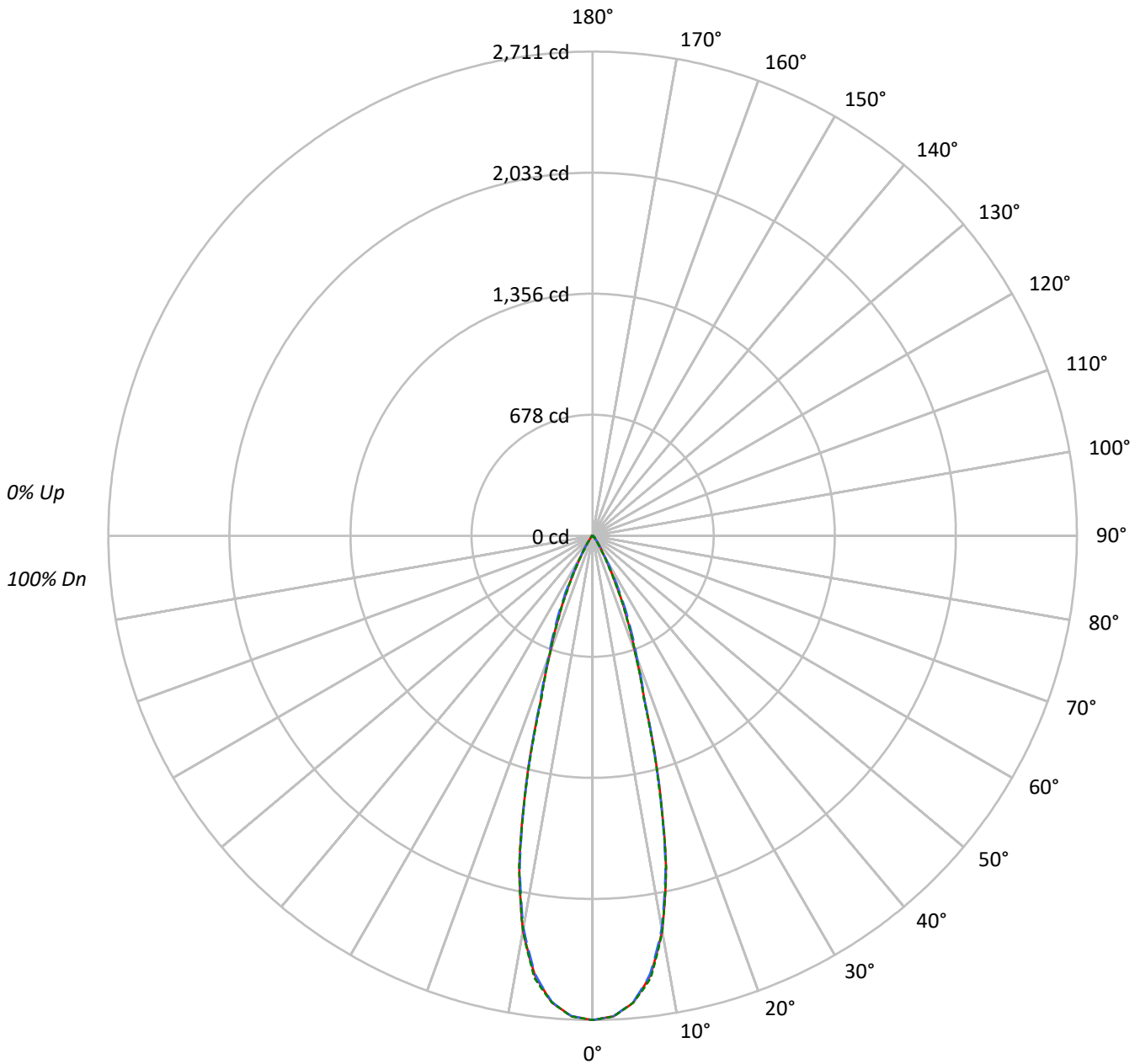
Downlight



TEST NUMBER: P742116

CATALOG NUMBER: LD4D10D010-EU4DR300210IC9027-4LBDP1MW

Luminous Intensity Polar Plot





TEST NUMBER: P742116

CATALOG NUMBER: LD4D10D010-EU4DR300210IC9027-4LBDP1MW

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°	207509	207509	207509
5°	201556	201317	201563
10°	174576	173348	174537
15°	113905	113287	112724
20°	56636	58762	56563
25°	28529	32178	27947
30°	11428	12445	9952
35°	5298	5074	4252
40°	2288	2538	2148
45°	1613	2003	1635
50°	548	1465	583
55°	320	601	334
60°	230	260	230
65°	145	145	145
70°	90	67	90
75°	0	30	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 2003 cd/sqm



TEST NUMBER: P742116

CATALOG NUMBER: LD4D10D010-EU4DR300210IC9027-4LBDP1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.4	28.3
10°-20°	383.9	45.5
20°-30°	165.9	19.7
30°-40°	37.8	4.5
40°-50°	13.0	1.5
50°-60°	3.2	0.4
60°-70°	0.8	0.1
70°-80°	0.1	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°	788.2	93.5
0°-40°	826.0	98.0
0°-60°	842.2	99.9
0°-90°	843.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	843.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2711	2711	2711	2711	2711	
5°	2623	2621	2620	2626	2623	239
15°	1437	1420	1430	1425	1422	385
25°	338	351	381	342	331	162
35°	57	58	54	54	46	38
45°	15	18	18	18	15	11
55°	2	2	4	3	2	2
65°	1	1	1	1	1	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P742116

CATALOG NUMBER: LD4D10D010-EU4DR300210IC9027-4LBDP1MW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2711.0	2711.0	2711.0	2711.0	2711.0
2.5°	2693.0	2691.2	2692.2	2693.6	2694.1
5°	2623.2	2620.6	2620.1	2625.5	2623.3
7.5°	2482.2	2478.6	2473.1	2485.6	2497.1
10°	2246.1	2242.1	2230.3	2236.1	2245.6
12.5°	1897.5	1884.6	1884.3	1902.9	1900.4
15°	1437.4	1420.1	1429.6	1425.0	1422.5
17.5°	966.6	959.9	972.7	968.9	952.2
20°	695.3	697.1	721.4	709.1	694.4
22.5°	507.4	513.7	542.5	511.0	499.4
25°	337.8	350.6	381.0	341.7	330.9
27.5°	207.8	213.7	244.4	205.1	199.3
30°	129.3	126.3	140.8	120.8	112.6
32.5°	84.8	81.1	85.7	76.9	70.3
35°	56.7	57.9	54.3	53.9	45.5
37.5°	35.4	40.7	35.9	38.3	29.3
40°	22.9	29.6	25.4	28.1	21.5
42.5°	18.8	22.7	20.9	22.2	19.2
45°	14.9	18.5	18.5	18.5	15.1
47.5°	8.3	12.4	15.8	12.7	8.8
50°	4.6	6.2	12.3	6.5	4.9
52.5°	3.2	3.6	8.4	3.7	3.3
55°	2.4	2.5	4.5	2.6	2.5
57.5°	1.9	2.0	2.4	2.0	1.9
60°	1.5	1.5	1.7	1.6	1.5
62.5°	1.1	1.1	1.2	1.1	1.1
65°	0.8	0.8	0.8	0.8	0.8
67.5°	0.4	0.5	0.5	0.5	0.5
70°	0.4	0.3	0.3	0.3	0.4
72.5°	0.3	0.1	0.1	0.1	0.1
75°	0.0	0.0	0.1	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)