

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: P741921

Luminaire Tested: LD4D10D010-EU4DR150210IC9040-4LBDP1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P741921
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: LD4D10D010-EU4DR150210IC9040-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1060.5 lumens
Efficiency: N/A
Efficacy: 90.6 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): 11.7
Input Voltage (V): NR
Input Current (A_{in}): 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



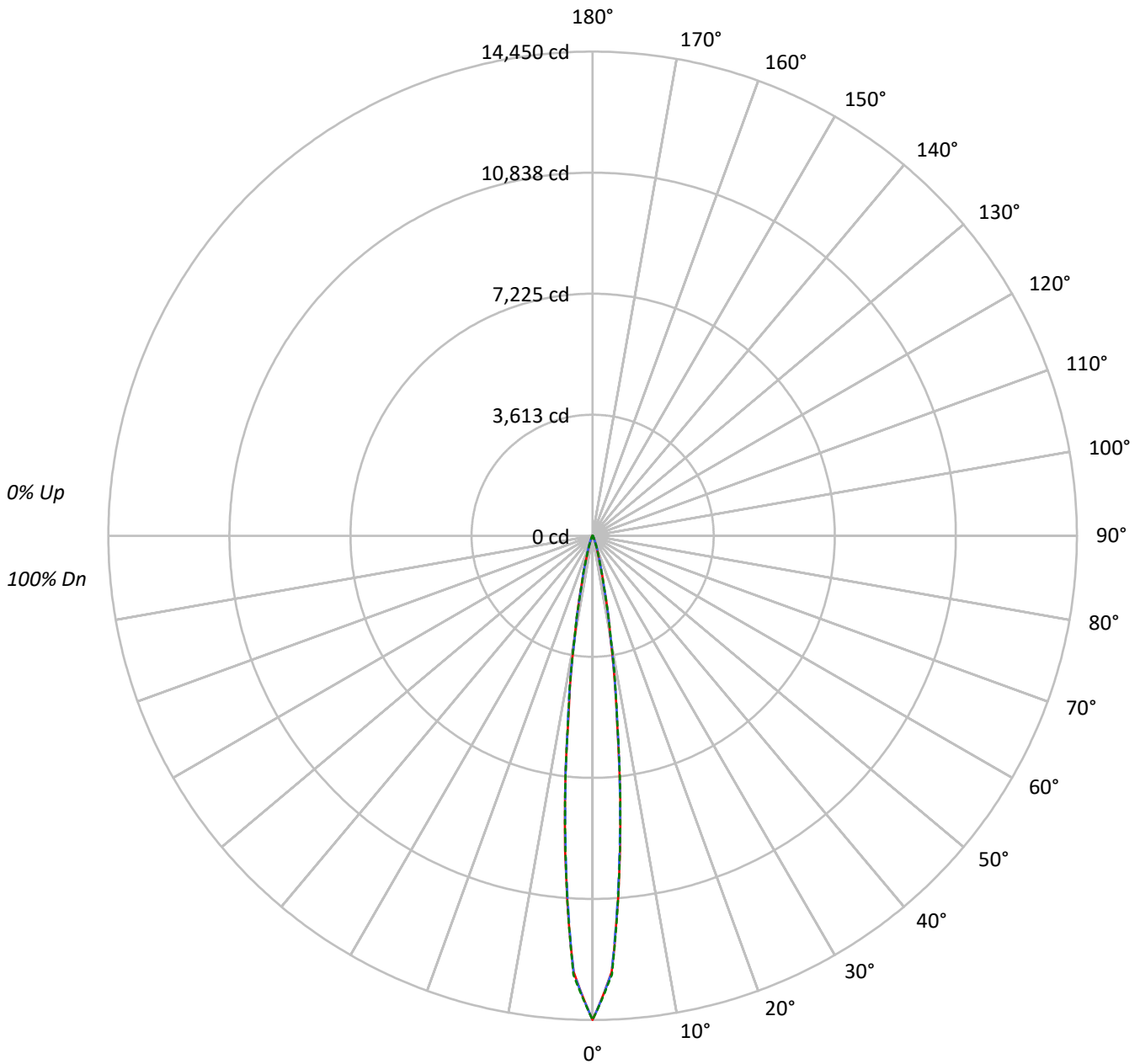
Downlight



TEST NUMBER: P741921

CATALOG NUMBER: LD4D10D010-EU4DR150210IC9040-4LBDP1MW

Luminous Intensity Polar Plot





TEST NUMBER: P741921

CATALOG NUMBER: LD4D10D010-EU4DR150210IC9040-4LBDP1MW

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						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°	1625868	1625868	1625868
5°	955444	943065	950525
10°	285157	287154	291549
15°	70927	72308	70076
20°	21225	24571	21675
25°	7478	9527	7580
30°	2748	3617	2793
35°	1380	1554	1336
40°	866	959	866
45°	644	686	644
50°	508	508	508
55°	425	425	425
60°	344	344	344
65°	264	264	264
70°	227	227	227
75°	136	136	181
80°	95	95	95
85°	50	50	50

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 686 cd/sqm



TEST NUMBER: P741921

CATALOG NUMBER: LD4D10D010-EU4DR150210IC9040-4LBDP1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	687.8	64.9
10°-20°	282.9	26.7
20°-30°	56.2	5.3
30°-40°	14.0	1.3
40°-50°	7.4	0.7
50°-60°	5.5	0.5
60°-70°	3.9	0.4
70°-80°	2.2	0.2
80°-90°	0.7	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°	1027.0	96.8
0°-40°	1041.0	98.2
0°-60°	1053.8	99.4
0°-90°	1060.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1060.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	14450	14450	14450	14450	14450	
5°	9401	9305	9280	9344	9353	687
15°	817	832	832	818	807	280
25°	96	109	122	108	97	50
35°	19	20	21	20	18	13
45°	9	9	10	9	9	7
55°	6	6	6	6	6	5
65°	4	4	4	4	4	4
75°	2	2	2	2	2	2
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



TEST NUMBER: P741921

CATALOG NUMBER: LD4D10D010-EU4DR150210IC9040-4LBDP1MW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	14449.6	14449.6	14449.6	14449.6	14449.6
2.5°	13034.2	13045.2	13049.5	13062.3	13110.0
5°	9401.3	9304.6	9279.5	9343.8	9352.9
7.5°	5568.9	5588.5	5660.1	5676.0	5618.5
10°	3056.1	3081.1	3077.5	3099.5	3124.6
12.5°	1562.9	1543.3	1537.2	1562.3	1527.4
15°	816.6	831.9	832.5	817.8	806.8
17.5°	439.2	456.9	486.3	462.4	425.7
20°	259.4	275.3	300.3	280.8	264.9
22.5°	160.3	173.1	190.9	175.6	162.7
25°	96.0	108.9	122.3	108.3	97.3
27.5°	56.9	67.9	76.5	67.3	56.3
30°	36.7	42.8	48.3	42.2	37.3
32.5°	25.7	28.1	30.6	28.1	25.7
35°	19.0	20.2	21.4	20.2	18.4
37.5°	14.7	15.9	16.5	15.3	14.1
40°	12.2	12.8	13.5	12.8	12.2
42.5°	10.4	11.0	11.0	11.0	10.4
45°	9.2	9.2	9.8	9.2	9.2
47.5°	8.0	8.0	8.6	8.0	8.0
50°	7.3	7.3	7.3	7.3	7.3
52.5°	6.7	6.7	6.7	6.7	6.7
55°	6.1	6.1	6.1	6.1	6.1
57.5°	5.5	5.5	5.5	5.5	5.5
60°	4.9	4.9	4.9	4.9	4.9
62.5°	4.3	4.3	4.3	4.3	4.3
65°	3.7	3.7	3.7	3.7	3.7
67.5°	3.7	3.7	3.7	3.7	3.7
70°	3.1	3.1	3.1	3.1	3.1
72.5°	2.4	2.4	2.4	2.4	2.4
75°	1.8	1.8	1.8	1.8	2.4
77.5°	1.8	1.8	1.8	1.8	1.8
80°	1.2	1.2	1.2	1.2	1.2
82.5°	1.2	1.2	1.2	1.2	1.2
85°	0.6	0.6	0.6	0.6	0.6
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)