

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: P742311

Luminaire Tested: LD4D10D010-EU4DR400210IC9040-4LBDP1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P742311
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-28)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D10D010-EU4DR400210IC9040-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 40° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1073.8 lumens
Efficiency: N/A
Efficacy: 91.8 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.6
Luminous Opening: Circular (Dia: 0.35' x H: 0')
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



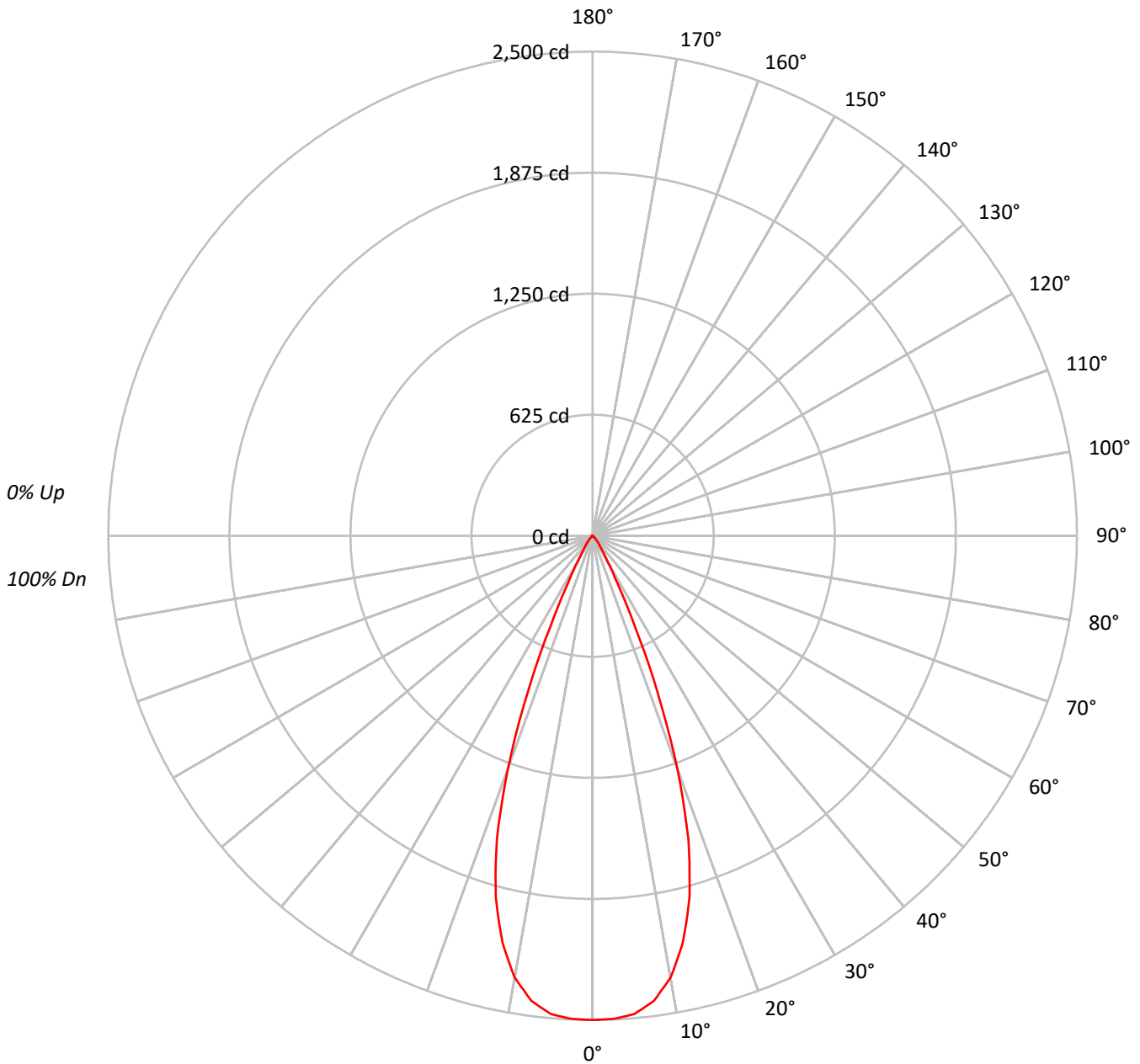
Downlight



TEST NUMBER: P742311

CATALOG NUMBER: LD4D10D010-EU4DR400210IC9040-4LBDP1MW

Luminous Intensity Polar Plot





TEST NUMBER: P742311

CATALOG NUMBER: LD4D10D010-EU4DR400210IC9040-4LBDP1MW

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	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100																
1	115	112	110	108	112	110	108	107	106	105	103	103	101	100	99	98	97	96			96																
2	110	106	103	100	108	105	102	99	102	99	97	99	97	95	96	95	93	92			92																
3	106	101	97	94	104	100	96	93	97	94	92	95	93	90	93	91	89	88			88																
4	102	97	92	89	101	95	91	88	93	90	87	92	89	86	90	87	85	84			84																
5	99	92	88	84	97	91	87	84	90	86	83	88	85	83	87	84	82	81			81																
6	95	88	84	80	94	88	83	80	86	82	80	85	82	79	84	81	79	77			77																
7	92	85	80	77	91	84	80	77	83	79	76	82	79	76	81	78	76	74			74																
8	89	82	77	74	88	81	77	74	80	76	73	79	76	73	78	75	73	72			72																
9	86	79	74	71	85	78	74	71	77	73	71	76	73	70	76	72	70	69			69																
10	83	76	71	68	82	75	71	68	75	71	68	74	70	68	73	70	68	67			67																

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	273163
5°	271837
10°	256940
15°	218436
20°	148876
25°	62122
30°	19530
35°	9083
40°	5021
45°	2302
50°	1122
55°	610
60°	306
65°	129
70°	64
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2302 cd/sqm



TEST NUMBER: P742311

CATALOG NUMBER: LD4D10D010-EU4DR400210IC9040-4LBDP1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.4	21.6
10°-20°	518.5	48.3
20°-30°	259.5	24.2
30°-40°	47.6	4.4
40°-50°	13.1	1.2
50°-60°	3.1	0.3
60°-70°	0.6	0.1
70°-80°	0.0	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°	1009.4	94.0
0°-40°	1057.0	98.4
0°-60°	1073.2	99.9
0°-90°	1073.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1073.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2500	
5°	2478	231
15°	1931	518
25°	515	260
35°	68	48
45°	15	13
55°	3	3
65°	0	1
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P742311

CATALOG NUMBER: LD4D10D010-EU4DR400210IC9040-4LBDP1MW

CANDELA DISTRIBUTION (FULL):

	0°
0°	2500.1
2.5°	2496.5
5°	2478.5
7.5°	2421.2
10°	2315.9
12.5°	2151.8
15°	1931.1
17.5°	1644.1
20°	1280.4
22.5°	872.9
25°	515.3
27.5°	272.4
30°	154.8
32.5°	100.0
35°	68.1
37.5°	48.6
40°	35.2
42.5°	24.1
45°	14.9
47.5°	9.5
50°	6.6
52.5°	4.7
55°	3.2
57.5°	2.1
60°	1.4
62.5°	0.9
65°	0.5
67.5°	0.3
70°	0.2
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	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



Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



— 0°-180°

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)