

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: P740391

Luminaire Tested: LD4D05D010-EU4DR500210IC9024-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P740391
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-44)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D05D010-EU4DR500210IC9024-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 50° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 575.0 lumens
Efficiency: N/A
Efficacy: 76.7 lumens/watt
Spacing Criteria (0/90/45): 0.8 / 0.8 / 0.73
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 7.5
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

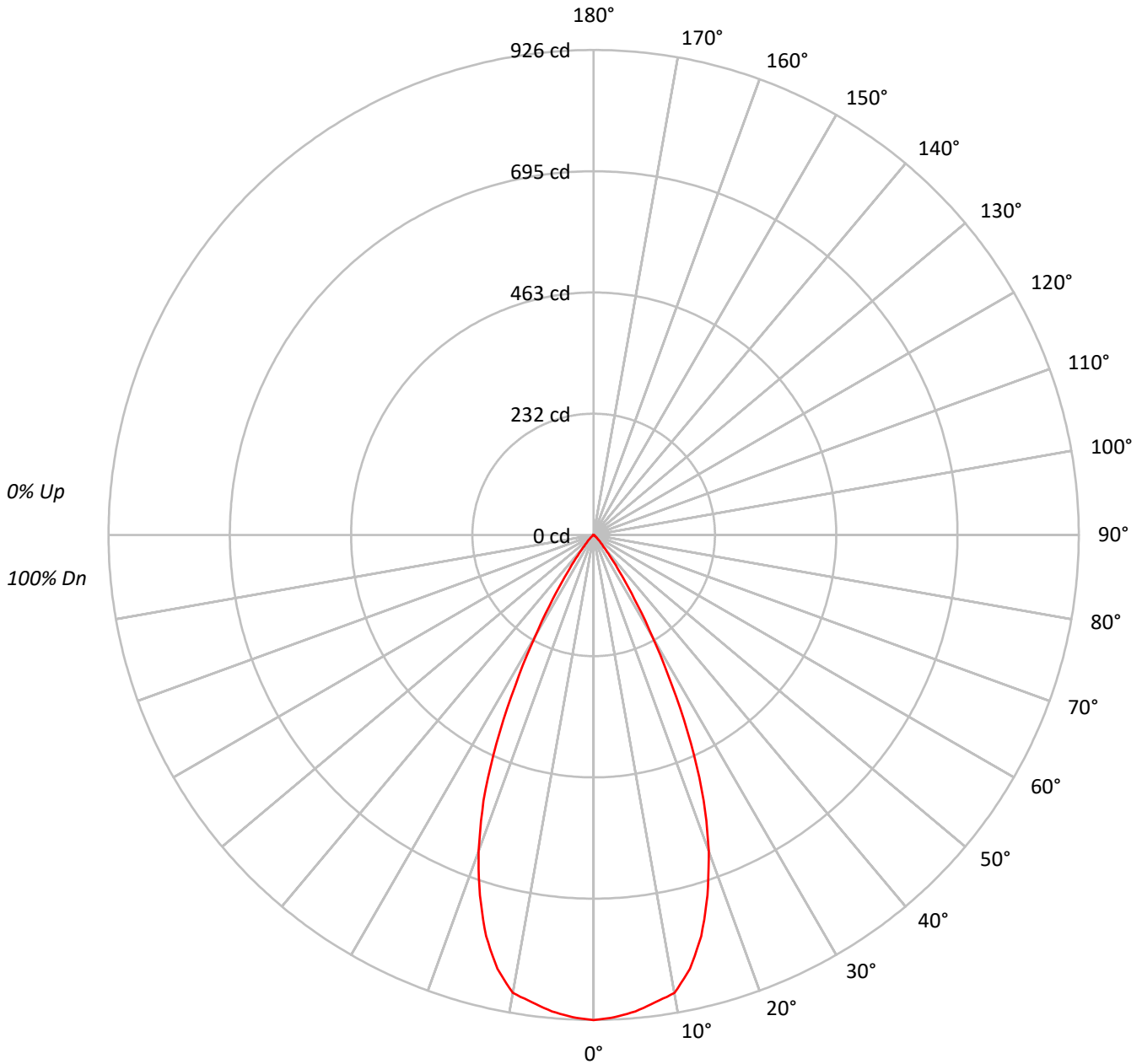


Downlight



TEST NUMBER: P740391
CATALOG NUMBER: LD4D05D010-EU4DR500210IC9024-4LBS1MW

Luminous Intensity Polar Plot





TEST NUMBER: P740391

CATALOG NUMBER: LD4D05D010-EU4DR500210IC9024-4LBS1MW

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				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	114	112	109	107	112	110	108	106	106	104	102	102	101	99	98	97	97	95			95
2	109	105	101	98	107	103	100	97	100	98	95	97	95	93	95	93	91	90			90
3	105	99	95	91	103	98	94	90	95	92	89	93	90	88	91	88	86	85			85
4	100	94	89	85	99	93	88	85	90	87	84	89	85	83	87	84	82	80			80
5	96	89	84	80	95	88	83	79	86	82	79	85	81	78	83	80	77	76			76
6	92	84	79	75	91	83	79	75	82	78	74	81	77	74	79	76	74	72			72
7	88	80	75	71	87	79	74	71	78	74	71	77	73	70	76	73	70	69			69
8	85	76	71	67	84	76	71	67	75	70	67	74	70	67	73	69	66	65			65
9	81	73	68	64	80	72	67	64	71	67	64	71	67	64	70	66	63	62			62
10	78	70	64	61	77	69	64	61	68	64	61	68	64	61	67	63	60	59			59

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	101230
5°	100169
10°	98520
15°	89712
20°	74647
25°	52996
30°	28046
35°	11431
40°	4236
45°	1947
50°	799
55°	419
60°	197
65°	52
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1947 cd/sqm



TEST NUMBER: P740391

CATALOG NUMBER: LD4D05D010-EU4DR500210IC9024-4LBS1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.3	15.0
10°-20°	218.2	37.9
20°-30°	196.0	34.1
30°-40°	61.3	10.7
40°-50°	10.8	1.9
50°-60°	2.1	0.4
60°-70°	0.3	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°	500.4	87.0
0°-40°	561.8	97.7
0°-60°	574.7	99.9
0°-90°	575.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	575.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	926	
5°	913	86
15°	793	218
25°	440	196
35°	86	61
45°	13	11
55°	2	2
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P740391

CATALOG NUMBER: LD4D05D010-EU4DR500210IC9024-4LBS1MW

CANDELA DISTRIBUTION (FULL):

	0°
0°	926.5
2.5°	921.9
5°	913.3
7.5°	900.2
10°	888.0
12.5°	848.9
15°	793.1
17.5°	722.1
20°	642.0
22.5°	549.3
25°	439.6
27.5°	323.1
30°	222.3
32.5°	144.7
35°	85.7
37.5°	49.2
40°	29.7
42.5°	19.4
45°	12.6
47.5°	7.7
50°	4.7
52.5°	3.2
55°	2.2
57.5°	1.5
60°	0.9
62.5°	0.6
65°	0.2
67.5°	0.1
70°	0.0
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)