

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: P742442

Luminaire Tested: LD4D10D010-EU4DR500210IC9030-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P742442
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: LD4D10D010-EU4DR500210IC9030-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 50° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1032.6 lumens
Efficiency: N/A
Efficacy: 88.3 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): 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

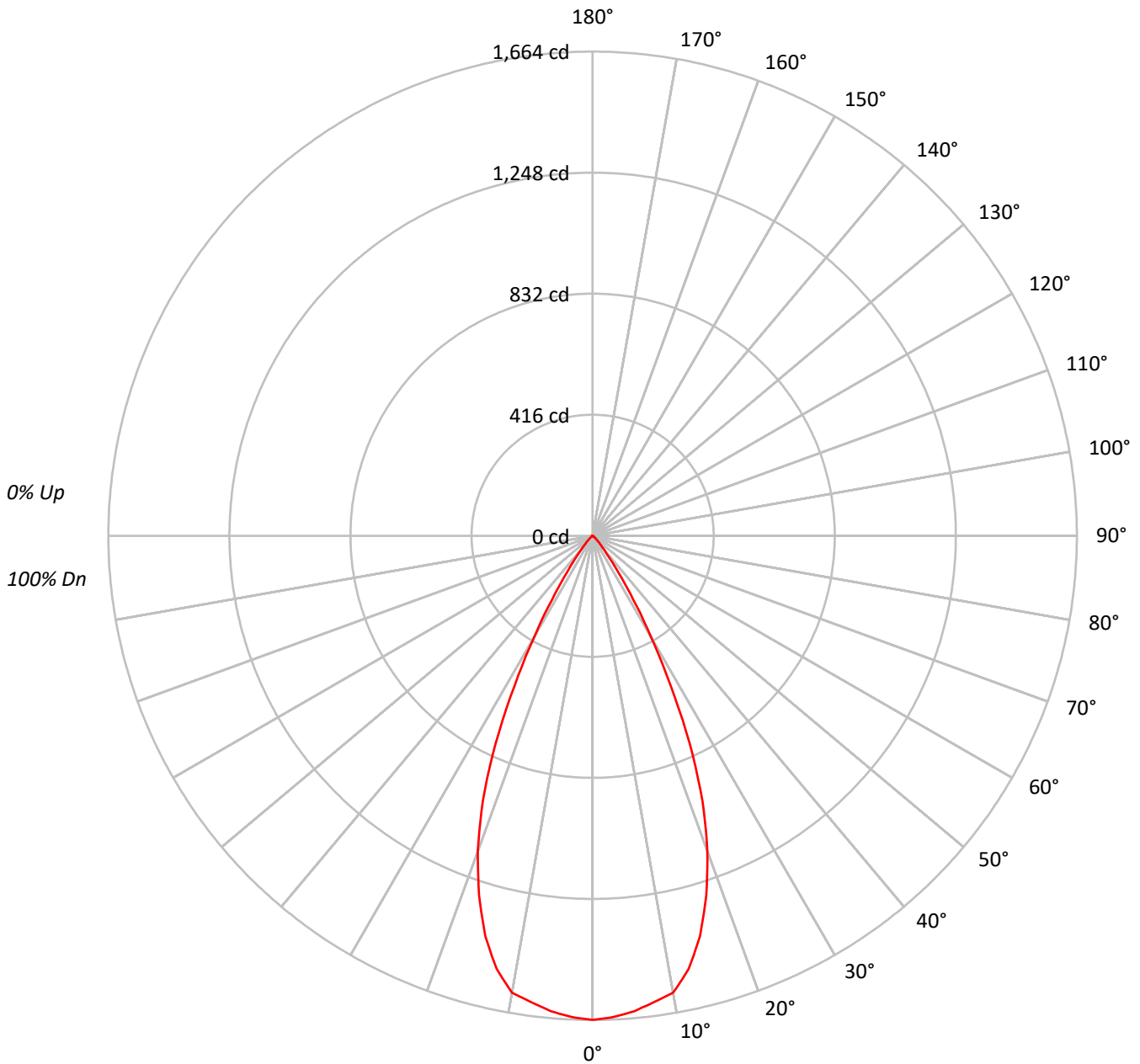


Downlight



TEST NUMBER: P742442
CATALOG NUMBER: LD4D10D010-EU4DR500210IC9030-4LBS1B

Luminous Intensity Polar Plot





TEST NUMBER: P742442

CATALOG NUMBER: LD4D10D010-EU4DR500210IC9030-4LBS1B

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																			
1	114	112	109	107	112	110	108	106	106	104	102	102	101	99	98	97	97	95																			
2	109	105	101	98	107	103	100	97	100	98	95	97	95	93	95	93	91	90																			
3	105	99	95	91	103	98	94	90	95	92	89	93	90	88	91	88	86	85																			
4	100	94	89	85	99	93	88	85	90	87	84	89	85	83	87	84	82	80																			
5	96	89	84	80	95	88	83	79	86	82	79	85	81	78	83	80	77	76																			
6	92	84	79	75	91	83	79	75	82	78	74	81	77	74	79	76	74	72																			
7	88	80	75	71	87	79	74	71	78	74	71	77	73	70	76	73	70	69																			
8	85	76	71	67	84	76	71	67	75	70	67	74	70	67	73	69	66	65																			
9	81	73	68	64	80	72	67	64	71	67	64	71	67	64	70	66	63	62																			
10	78	70	64	61	77	69	64	61	68	64	61	68	64	61	67	63	60	59																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	181777
5°	179883
10°	176915
15°	161098
20°	134051
25°	95155
30°	50364
35°	20528
40°	7631
45°	3492
50°	1428
55°	762
60°	371
65°	103
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3492 cd/sqm



TEST NUMBER: P742442

CATALOG NUMBER: LD4D10D010-EU4DR500210IC9030-4LBS1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.0	15.0
10°-20°	391.8	37.9
20°-30°	351.9	34.1
30°-40°	110.2	10.7
40°-50°	19.3	1.9
50°-60°	3.9	0.4
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°	898.7	87.0
0°-40°	1008.9	97.7
0°-60°	1032.0	99.9
0°-90°	1032.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1032.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1664	
5°	1640	155
15°	1424	392
25°	789	352
35°	154	110
45°	23	19
55°	4	4
65°	0	1
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P742442
CATALOG NUMBER: LD4D10D010-EU4DR500210IC9030-4LBS1B

CANDELA DISTRIBUTION (FULL):

	0°
0°	1663.7
2.5°	1655.5
5°	1640.1
7.5°	1616.5
10°	1594.6
12.5°	1524.5
15°	1424.2
17.5°	1296.8
20°	1152.9
22.5°	986.4
25°	789.3
27.5°	580.3
30°	399.2
32.5°	259.9
35°	153.9
37.5°	88.3
40°	53.5
42.5°	34.8
45°	22.6
47.5°	13.8
50°	8.4
52.5°	5.7
55°	4.0
57.5°	2.7
60°	1.7
62.5°	1.0
65°	0.4
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)