

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: P742420

Luminaire Tested: LD4D10D010-EU4DR500210IC9024-4LBSQW1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P742420
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-EU4DR500210IC9024-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 50° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 789.1 lumens
Efficiency: N/A
Efficacy: 67.4 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 (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

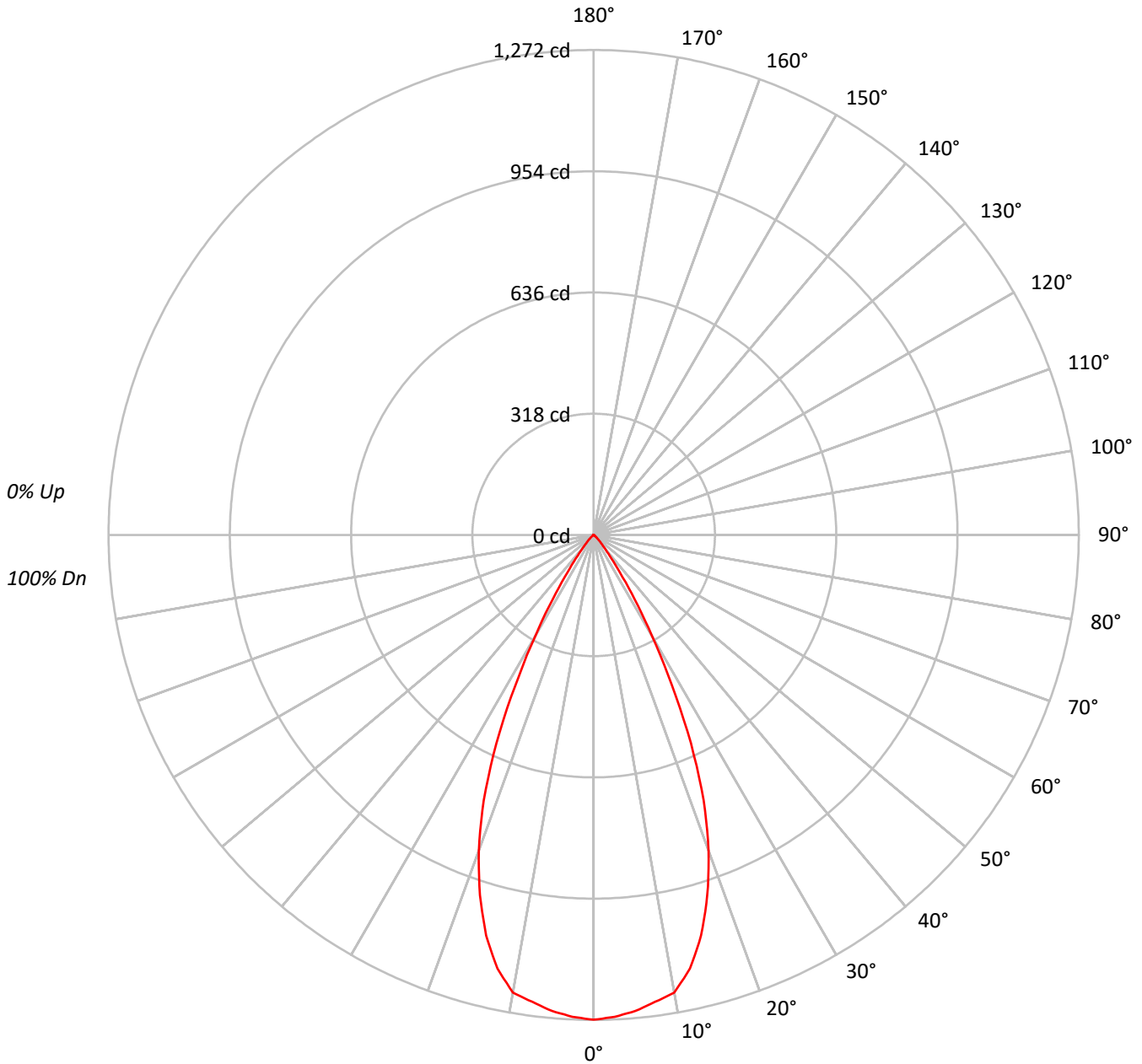


Downlight



TEST NUMBER: P742420
CATALOG NUMBER: LD4D10D010-EU4DR500210IC9024-4LBSQW1B

Luminous Intensity Polar Plot





TEST NUMBER: P742420

CATALOG NUMBER: LD4D10D010-EU4DR500210IC9024-4LBSQW1B

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	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°	138925
5°	137471
10°	135199
15°	123114
20°	102448
25°	72719
30°	38492
35°	15686
40°	5834
45°	2658
50°	1088
55°	571
60°	284
65°	78
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2658 cd/sqm



TEST NUMBER: P742420

CATALOG NUMBER: LD4D10D010-EU4DR500210IC9024-4LBSQW1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.5	15.0
10°-20°	299.4	37.9
20°-30°	268.9	34.1
30°-40°	84.2	10.7
40°-50°	14.7	1.9
50°-60°	3.0	0.4
60°-70°	0.4	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°	686.8	87.0
0°-40°	771.0	97.7
0°-60°	788.7	99.9
0°-90°	789.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	789.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1272	
5°	1253	118
15°	1088	299
25°	603	269
35°	118	84
45°	17	15
55°	3	3
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P742420

CATALOG NUMBER: LD4D10D010-EU4DR500210IC9024-4LBSQW1B

CANDELA DISTRIBUTION (FULL):

0°	
0°	1271.5
2.5°	1265.1
5°	1253.4
7.5°	1235.3
10°	1218.6
12.5°	1165.0
15°	1088.4
17.5°	991.0
20°	881.1
22.5°	753.8
25°	603.2
27.5°	443.5
30°	305.1
32.5°	198.6
35°	117.6
37.5°	67.6
40°	40.9
42.5°	26.6
45°	17.2
47.5°	10.5
50°	6.4
52.5°	4.4
55°	3.0
57.5°	2.1
60°	1.3
62.5°	0.7
65°	0.3
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)