

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: P745366

Luminaire Tested: LD4D25D010-EU4DR5020359027-4LBSQW1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P745366
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: LD4D25D010-EU4DR5020359027-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 50° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2214.9 lumens
Efficiency: N/A
Efficacy: 88.2 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): 25.1
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



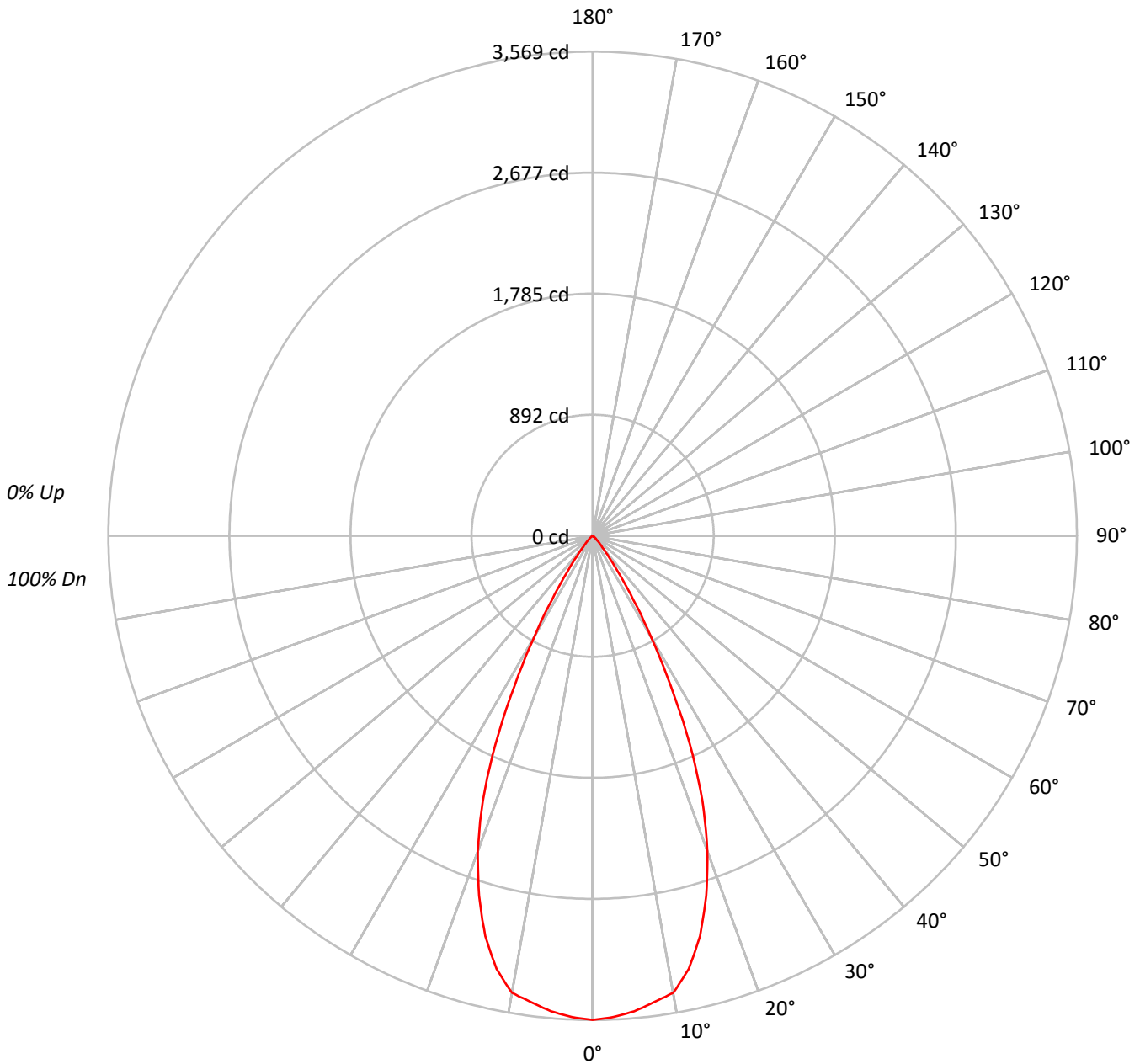
Downlight



TEST NUMBER: P745366

CATALOG NUMBER: LD4D25D010-EU4DR5020359027-4LBSQW1MW

Luminous Intensity Polar Plot





TEST NUMBER: P745366

CATALOG NUMBER: LD4D25D010-EU4DR5020359027-4LBSQW1MW

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°	389941
5°	385848
10°	379503
15°	345566
20°	287543
25°	204113
30°	108034
35°	44030
40°	16345
45°	7494
50°	3060
55°	1600
60°	787
65°	233
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7494 cd/sqm



TEST NUMBER: P745366

CATALOG NUMBER: LD4D25D010-EU4DR5020359027-4LBSQW1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	332.5	15.0
10°-20°	840.4	37.9
20°-30°	754.9	34.1
30°-40°	236.3	10.7
40°-50°	41.4	1.9
50°-60°	8.2	0.4
60°-70°	1.2	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°	1927.7	87.0
0°-40°	2164.1	97.7
0°-60°	2213.7	99.9
0°-90°	2214.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2214.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3569	
5°	3518	333
15°	3055	840
25°	1693	755
35°	330	236
45°	48	41
55°	8	8
65°	1	1
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P745366

CATALOG NUMBER: LD4D25D010-EU4DR5020359027-4LBSQW1MW

CANDELA DISTRIBUTION (FULL):

	0°
0°	3568.9
2.5°	3551.1
5°	3518.0
7.5°	3467.5
10°	3420.6
12.5°	3270.1
15°	3055.0
17.5°	2781.7
20°	2473.0
22.5°	2115.9
25°	1693.1
27.5°	1244.8
30°	856.3
32.5°	557.5
35°	330.1
37.5°	189.6
40°	114.6
42.5°	74.6
45°	48.5
47.5°	29.5
50°	18.0
52.5°	12.3
55°	8.4
57.5°	5.7
60°	3.6
62.5°	2.1
65°	0.9
67.5°	0.3
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)